

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 17, 2003, 12:38:45 ; Search time 39.7192 Seconds

(without alignments)
6800.903 Million cell updates/sec

Title: US-09-832-320-3

Perfect score: 612

Sequence: 1 atggcgactcgcgcagcca.....aggcgagagccctactag 612

Scoring table: IDENTITY_NTC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 113956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:*

1: /cgn2_6/ptodata/2/ina/5A_COMB.seq.*

2: /cgn2_6/ptodata/2/ina/5B_COMB.seq.*

3: /cgn2_6/ptodata/2/ina/6A_COMB.seq.*

4: /cgn2_6/ptodata/2/ina/6B_COMB.seq.*

5: /cgn2_6/ptodata/2/ina/PCITUS_COMB.seq.*

6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	139	22.7	749	4	US-09-257-583-12
2	133.2	21.8	866	4	US-09-257-583-6
3	121.8	19.9	806	4	US-09-257-583-14
4	73.8	12.1	1288	1	US-08-440-856A-9
5	70.4	11.5	8438	1	US-07-945-283-1
6	69.6	11.4	152331	3	US-09-138-155-16
7	67.2	11.0	4403765	3	US-09-103-840A-2
8	66	10.8	4411529	3	US-09-103-840A-1
9	65.4	10.7	4411529	3	US-09-103-840A-1
10	65	10.6	696	1	US-08-181-271A-11
11	65	10.6	696	1	US-08-449-315-11
12	65	10.6	696	1	US-08-444-803-11
13	65	10.6	696	1	US-08-449-043-11
14	65	10.6	696	1	US-08-456-262-11
15	65	10.6	696	1	US-08-455-416-11
16	65	10.6	696	1	US-08-455-244-11
17	65	10.6	696	1	US-08-454-876-11
18	65	10.6	696	2	US-08-457-364-11
19	65	10.6	696	2	US-08-456-262-11
20	65	10.6	696	2	US-08-456-240-11
21	65	10.6	696	2	US-08-455-736-11
22	65	10.6	696	2	US-08-971-217-11
23	65	10.6	696	3	US-09-350-600-11
24	64.4	10.5	4257	2	US-08-690-473-1
25	64.4	10.5	4257	3	US-09-259-821A-1
26	64.4	10.5	4257	3	US-08-843-659-1
27	64.4	10.5	12001	1	US-08-458-568A-11

28	64	10.5	1065	4	US-09-522-714-15	Sequence 15, Appl
29	63.4	10.4	771	1	US-08-181-271A-10	Sequence 10, Appl
30	63.4	10.4	771	1	US-08-449-315-16	Sequence 10, Appl
31	63.4	10.4	771	1	US-08-444-803-10	Sequence 10, Appl
32	63.4	10.4	771	1	US-08-449-043-10	Sequence 10, Appl
33	63.4	10.4	771	1	US-08-456-265A-10	Sequence 10, Appl
34	63.4	10.4	771	1	US-08-455-416-10	Sequence 10, Appl
35	63.4	10.4	771	1	US-08-455-244-10	Sequence 10, Appl
36	63.4	10.4	771	1	US-08-454-876-10	Sequence 10, Appl
37	63.4	10.4	771	2	US-08-457-364-10	Sequence 10, Appl
38	63.4	10.4	771	2	US-08-456-262-10	Sequence 10, Appl
39	63.4	10.4	771	2	US-08-456-240-10	Sequence 10, Appl
40	63.4	10.4	771	2	US-08-455-736-10	Sequence 10, Appl
41	63.4	10.4	771	2	US-08-971-217-10	Sequence 10, Appl
42	63.4	10.4	771	3	US-09-350-600-10	Sequence 10, Appl
43	61.4	10.0	8438	1	US-07-945-283-1	Sequence 10, Appl
44	61	10.0	3113	4	US-09-894-998A-52	Sequence 52, Appl
45	61	10.0	3345	4	US-09-894-998A-49	Sequence 49, Appl

RESULT 1
US-09-257-583-12
; Sequence 12, Application US/09257583A
; Patent No. 6429362
; GENERAL INFORMATION:
; APPLICANT: Crane, Virginia
; TITLE OF INVENTION: Family Of Maize PR-1 Genes And Promoters
; FILE REFERENCE: 5718-32, 035718/175219
; CURRENT APPLICATION NUMBER: US/09/257,583A
; CURRENT FILING DATE: 1999-02-25
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 749
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (92)..(583)
US-09-257-583-12

Query Match 22.7%; Score 139; DB 4; Length 749;
Best Local Similarity 61.6%; Pred. No. 5.7e-15;
Matches 258; Conservative 0; Mismatches 155; Indels 6; Gaps 2;

QY	197	CGCGGACGAGTACTGGCGCGGCACACACAGCGCGCGCGGTGGCGTGGCGCGG 256
DB	168	CGCGGACGAGTACTGGCGCGGCACACACAGCGCGCGCGGTGGCGTGGCGCGG 227
QY	257	TGCGGTGGAACGCGGCGCTGGCTTGGCGCGCGCGGACGGTGGCGACAGCGCGG 316
DB	228	TGCTCTGGGAGGACACCGCTGCGC---GCGTACGCGGACAGGCTACGCGCGCGG 284
QY	317	AGGCGGCGTGGCGGTTCGCGGAGGTGGCGGCGCGCGCGTACGCGCGGACAGG 376
DB	285	GCGACTGCGGCGTGGCGGTTCGCGGAGGTGGCGGCGCGCGTTCGCGGCGGCGG 344
QY	377	CGAGTACGCGCGCGCGCGCGCGCGGTGGTGGCGGTGGCGGAGCGCGGTACT 436
DB	345	CGGCGCGCGACTGGTGGCGGTGGCGCGCGGTGGCGGTGGCGGAGGAGTACT 404
QY	437	ACACCCAGCGCAACACAGTGGCGCGCGCGCGGCGAGTGGCGGACAGTACAGG 496
DB	405	ACGACCGGACACCAACAGTGGCGCGCGGAGGCGAGGTGGCGGCGGCGGCGG 464
QY	497	TGTGGCGCAACACCGCGCGGCGGTGGGTGGCGGCGGCGGCGGCGGCGGCGG 553
DB	465	TGTGGCGGAGTTCACCGCGCGGTGGGTGGCGGCGGCGGCGGCGGCGGCGG 524
QY	554	CGCTCAGCGTCTGCGCTGTACAAACCGCGGACAGTGCAGGCGGCGGCGGCGG 612

ALIGNMENTS

Db 4274 GGGGGCCCGCGCGCGCGCGCGCTGGGACGAGCGCGGCTGCTCGGCGAG 4333
QY 385 CGCGCGCGC---CCGCGGAGGTGGTGGCGCTGTGGTGGCGGAGCGCGGTACTACAC 441
Db 4334 AGCGGGGCGAGCGCGCGCGCGCGCTCGCGCGCGCGCGCGCGCGCGCTCGGCGAGC 4393
QY 442 CACGCCAACACAGTGGCGCGCGCGCGCGCGAGTGGCGGACGATACAGCGAGGTGGTGG 501
Db 4394 CGGCGCGCGCGCGCGCTGGCGCGCGCGGGAAGAGCGCGGTAGGTCCAGCGCGCGCTCG 4453
QY 502 CGAACACCGCGCGAGGTGGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 547
Db 4454 CGGCGCGCGCGCGCGCTGACCGCTGACGCGACGCGCGCGCGCGCGCGCGCGCGCG 4499

RESULT 6
US-09-128-155-16/c
; Sequence 15, Application US/09128155
; Patent No. 6117654
; GENERAL INFORMATION:
; APPLICANT: Pan, Yang
; TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 RELATED PROTEIN FAMILY
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: 09404/052001
; CURRENT APPLICATION NUMBER: US/09128.155
; CURRENT FILING DATE: 1998-08-03
; EARLIER APPLICATION NUMBER: US 60/091.650
; EARLIER FILING DATE: 1998-07-02
; EARLIER APPLICATION NUMBER: US 60/054.646
; EARLIER FILING DATE: 1997-08-04
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 152331
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(152331)
; OTHER INFORMATION: n = A,T,C or G
US-09-128-155-16

Query Match 11.4%; Score 69.6; DB 3; Length 152331;
Best Local Similarity 47.7%; Pred. No. 0.00051;
Matches 215; Conservative 0; Mismatches 235; Indels 3; Gaps 1;
QY 139 GCGCGCGCGCGGTGACCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 198
Db 22264 GGGGGGGGTGGGGGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 22205
QY 199 GCGGACGAGTACTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 257
Db 22204 CGGGGGGGGGCGCGGGGGGGGGCGGGGGGGGGGGCGGGGGGGGGGGCGGGGGTGG 22145
QY 258 GCGGTGGAACCGCA 317
Db 22144 GCGCGGGCGCGCGCGGGGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 22085
QY 318 GSGCGGGTGGCGGTTCG 377
Db 22084 TGGGGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 22025
QY 378 GAGCTACCGCTA 437
Db 22024 GSGGGGTGGGGCGCGGGGGGGGGCGGGGGGGGGGGCGGGGGGGGGGGCGGGGGTGG 21965
QY 438 CACCCACGCGCAACACAGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 497
Db 21964 GCGCGGGGGGGCGCGGGGGGGGGCGGGGGGGGGGGCGGGGGGGGGGGCGGGGGGGA 21905
QY 498 GTGGCGCAACCGCT 557

Db 21904 GGG 21845
QY 558 CAGCGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 588
Db 21844 CACCCCACTGCAACCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 21814
RESULT 7
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: PRASER, Ciaire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09103.840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match 11.0%; Score 57.2; DB 3; Length 4403765;
Best Local Similarity 49.0%; Pred. No. 0.00091;
Matches 235; Conservative 0; Mismatches 243; Indels 2; Gaps 2;
QY 72 GCGCACCTCTCTGCGCGCTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 131
Db 1191798 CGGCAATGGCT 1191759
QY 132 GCG 191
Db 1191738 GGTGTGCG 1191679
QY 192 CG-CGAGCGCGGACGAGTACCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 250
Db 1191678 TGGCG 1191619
QY 251 CCGCGCTGGGTGGAACG 310
Db 1191618 CGGTGACG 1191559
QY 311 GCG 370
Db 1191558 CGTGGCG 1191499
QY 371 GGTGGCGAGCTACCG 430
Db 1191498 CGACACCG 1191439
QY 431 GGTACTACCCACG 490
Db 1191438 GG-CCGCGTGGCTGTCCGCGAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1191380
QY 491 AGTGGTGTGGCGCAACCG 559
Db 1191379 CCGGCAACG 1191320
RESULT 8
US-09-103-840A-1
; Sequence 1, Application US/09103840A

```
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match      10.8%; Score 66; DB 3; Length 4411529;
Best Local Similarity 48.5%; Pred. No. 0.0014;
Matches 252; Conservative 0; Mismatches 255; Indels 13; Gaps 2;

QY 34 CTGCTCCCGCCGATGGCCACGGGTGCTTCTCTCTCCACCCCTCTCTCGGCTCTGC 93
DB 1217716 CTGCGCTCAGCGGTAAAGCCAAAGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 1217775
QY 94 GCGCGCGCGCGGCGGCGGCGGCGGCTCTCATGCGGCGGCGGCGGCGGCGGCGG 153
DB 1217776 GCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1217835
QY 154 ACCAAGCGGACGAGGTGGCCACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 213
DB 1217836 GTGACGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1217883
QY 214 GCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 273
DB 1217884 CCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1217943
QY 274 CTGCTTCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 335
DB 1217944 CCACGGGTGTGACGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 1218003
QY 334 GCGGACGTGGGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 393
DB 1218004 GCGGGGTGGCGG-GAAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1218062
QY 394 CCGCGCGGAGTGTGTGGCGCTGTGGTGGCGGAGGGCGGTACTACACCCACGCAAC 453
DB 1218063 GTGGCGGCGGGAACGCGCGCAATGGCGGCAACGCGCGCAATGGCGGCAAC 1218122
QY 454 ACCTGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 513
DB 1218123 GCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1218182
QY 514 GAGTGGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 553
DB 1218183 GGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1218222

RESULT 9
US-09-103-840A-1/c
; Sequence 1, Application US/09/03840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00

; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match      10.7%; Score 65.4; DB 3; Length 4411529;
Best Local Similarity 48.0%; Pred. No. 0.0018;
Matches 257; Conservative 0; Mismatches 266; Indels 12; Gaps 2;

QY 72 CCGCACCCCTCTCTCGCGCTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 131
DB 1189856 CCGCAATGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189797
QY 132 GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 151
DB 1189796 GGGTGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189737
QY 192 C-----GCGACGCGCGGACGAGTACCTTGGCGCGCGCGCGCGCGCGCGCG 247
DB 1189736 CGTGCGCGGTGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189677
QY 248 TGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 307
DB 1189676 GGGCGGTGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189617
QY 308 AGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 367
DB 1189616 CCGCGCGCGCGGTGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189557
QY 368 AGGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 426
DB 1189556 CCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189497
QY 427 -----GGCGGCTACTACACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 479
DB 1189496 CGACGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1189437
QY 480 CAGGTACGCGGAGGTGGGTGGCGGCAACCGCGCGAGGTGCGGCGCGCGCGCG 539
DB 1189436 CCGCGCGCACCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 1189377
QY 540 CCGCACGCGCGCGCGCGCTCAGCGCTGTGCTGTACAAACCGCGCGCGCGCG 594
DB 1189376 CCGCACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189322

RESULT 10
US-09-181-271A-11
; Sequence 11, Application US/08161271A
; Patent No. 5614395
; GENERAL INFORMATION:
; APPLICANT: Ryals, John A.
; APPLICANT: Alexander, Danny C.
; APPLICANT: Beck, James J.
; APPLICANT: Duesing, John H.
; APPLICANT: Friedrich, Leslie B.
; APPLICANT: Goodman, Robert M.
; APPLICANT: Harms, Christian
; APPLICANT: Meins, Jr., Frederick
; APPLICANT: Montoya, Alice
; APPLICANT: Moyer, Mary H.
; APPLICANT: Neuhaus, Jean-Marc
; APPLICANT: Payne, George B.
; APPLICANT: Sperison, Christoph
; APPLICANT: Stinson, Jeffrey R.
; APPLICANT: Uknes, Scott J.
; APPLICANT: Ward, Eric R.
```



```

: APPLICATION NUMBER: US 07/768,122
: FILING DATE: 27-SEP-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/580,431
: FILING DATE: 7-SEP-1990
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/368,672
: FILING DATE: 20-JUN-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/329,018
: FILING DATE: 24-MAR-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/045,957
: FILING DATE: 12-APR-1993
: ATTORNEY/AGENT INFORMATION:
: NAME: Elmer, James Scott
: REGISTRATION NUMBER: 36,129
: REFERENCE/DOCKET NUMBER: S-19825/Pl/CGC 1727
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (919)541-8614
: TELEFAX: (919)541-8689
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 696 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: US-08-444-803-11

Query Match 10.6%; Score 65; DB 1; Length 696;
Best Local Similarity 56.2%; Pred. No. 0.0047;
Matches 122; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 395 CCGCGGAGGTGGTGGCCCTGGTGGCGGAGGGCGGTACTACACCCAGCGCAACAACA 454
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 319 CCGGTAAAGCGGTGGATGTGGTCAATCAGAAACAGTATTATGCCACGACTCAACA 378
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 455 CGTGGCGGGGGCGGCGGACGTGGGACGTACACGCGAGTGGTGGCGCAACACGCGCC 514
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 379 CTTGTGCCAAGACAGACGTTGGTGGACACTATACAGGTGGTTTGGCGTAACCTCGGTC 438
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 515 AGTGGGTGGCGGCGGCGGACGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 574
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 439 GTGTGTGATGTGTAGGCTTACGTGTAAACAATGGAGGATATATGTCTTTCACACTATG 498
QY 575 ACCGCGCAGGCAAGTGCAGCGGCGGAGAGCCCTACTA 61:
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 499 ATCTTCAGGTAAAGTTATAGGCAARAGCCCACTACTA 535
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 13
US-08-449-043-11
: Sequence 11, Application US/08449043
: Patent No. 5689044
: GENERAL INFORMATION:
: APPLICANT: Ryals, John A.
: APPLICANT: Alexander, Danny C.
: APPLICANT: Beck, James J.
: APPLICANT: Duesing, John H.
: APPLICANT: Friedrich, Leslie B.
: APPLICANT: Goodman, Robert M.
: APPLICANT: Harns, Christian
: APPLICANT: Meins, Jr., Frederick
: APPLICANT: Montoya, Alice
: APPLICANT: Moyer, Mary B.
: APPLICANT: Neuhaus, Jean-Marie
: APPLICANT: Payne, George B.
: APPLICANT: Sperison, Christoph.
: APPLICANT: Stinson, Jeffrey R.
: APPLICANT: Uknes, Scott J.
: APPLICANT: Ward, Eric R.
: APPLICANT: Williams, Shericca C.

: TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
: TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
: NUMBER OF SEQUENCES: 106
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: CIBA-GEIGY Corporation
: STREET: 7 Skyline Drive
: CITY: Hawthorne
: STATE: New York
: COUNTRY: USA
: ZIP: 10532
: COMPUTER READABLE FORM:
: MEDIUM TYPE: floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/449,043
: FILING DATE: 24-MAY-1995
: CLASSIFICATION: 600
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/181,271
: FILING DATE: 13-JAN-94
: APPLICATION NUMBER: US 08/093,301
: FILING DATE: 16-JUL-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/937,197
: FILING DATE: 6-NOV-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/678,378
: FILING DATE: 1-APR-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/305,566
: FILING DATE: 6-FEB-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/165,667
: FILING DATE: 8-MAR-1988
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/042,847
: FILING DATE: 6-APR-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/632,441
: FILING DATE: 21-DEC-1990
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/425,504
: FILING DATE: 20-OCT 1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/848,506
: FILING DATE: 6-MAR-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/766,122
: FILING DATE: 27-SEP-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/580,431
: FILING DATE: 7-SEP-1990
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/368,672
: FILING DATE: 20-JUN-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/329,018
: FILING DATE: 24-MAR-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/045,957
: FILING DATE: 12-APR-1993
: ATTORNEY/AGENT INFORMATION:
: NAME: Elmer, James Scott
: REGISTRATION NUMBER: 36,129
: REFERENCE/DOCKET NUMBER: S-19825/Pl/CGC 1727
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (919)541-8614
: TELEFAX: (919)541-8689
: INFORMATION FOR SEQ ID NO: 11:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 696 base pairs
```



```
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-449-043-11

Query Match      10.6%; Score 65; DB 1; Length 696;
Best Local Similarity 56.2%; Pred. No. 0.0047;
Matches 122; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 395 CCGCCGAGGTGGTGGCGTGGTGGCGGAGGGCGGTACTACACCCAGCCCAACAACA 454
    |||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 319 CCGTAAGCGCGTCCAGATGGGTCAATGAGAAACAGTATTATGCCACGACTCAACA 378

QY 455 CGTGGCCCGCGGGCGGCGAGTGGGCGACGTCACACGAGGTGGTGGCGCAACCGCGG 514
    |||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 379 CTTGTGCCCAAGGACAGGTGTGTGGACACTATATACTAGGTGGTTTGGCGTAAC 438

QY 515 AGTGGGTGGCGCGGCGAGCGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 574
    |||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 439 GTGTGGATGTCTAGGCTTCAGTGTAACTAGGAGATATATGCTCTTGCACACTATG 498

QY 575 ACCCGCAGCGCAACGTCGAGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 611
    |||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 499 ATCCTCCAGCTAATGTTATAGGCAAAAGCCCACTACTA 535

RESULT 15
US-08-455-416-11
: Sequence 11, Application US/084554:6
: Patent No. 577200
: GENERAL INFORMATION:
: APPLICANT: Ryals, John A.
: APPLICANT: Alexander, Danny C.
: APPLICANT: Beck, James J.
: APPLICANT: Duesing, John H.

; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-449-043-11

Query Match      10.6%; Score 65; DB 1; Length 696;
Best Local Similarity 56.2%; Pred. No. 0.0047;
Matches 122; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 395 CCGCCGAGGTGGTGGCGTGGTGGCGGAGGGCGGTACTACACCCAGCCCAACAACA 454
    |||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 319 CCGTAAGCGCGTCCAGATGGGTCAATGAGAAACAGTATTATGCCACGACTCAACA 378

QY 455 CGTGGCCCGCGGGCGGCGAGTGGGCGACGTCACACGAGGTGGTGGCGCAACCGCGG 514
    |||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 379 CTTGTGCCCAAGGACAGGTGTGTGGACACTATATACTAGGTGGTTTGGCGTAAC 438

QY 515 AGTGGGTGGCGCGGCGAGCGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 574
    |||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 439 GTGTGGATGTCTAGGCTTCAGTGTAACTAGGAGATATATGCTCTTGCACACTATG 498

QY 575 ACCCGCAGCGCAACGTCGAGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 611
    |||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 499 ATCCTCCAGCTAATGTTATAGGCAAAAGCCCACTACTA 535

RESULT 14
US-08-456-265A-11
: Sequence 11, Application US/08456265A
: Patent No. 5767369
: GENERAL INFORMATION:
: APPLICANT: Alexander, Danny C.
: APPLICANT: Ryals, John A.
: APPLICANT: Goodman, Robert M.
: APPLICANT: Stinson, Jeffrey R.
: TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
: TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
: NUMBER OF SEQUENCES: 111
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: CIBA-GEIGY Corporation
: STREET: 520 White Plains Road, P.O. Box 2005
: CITY: Tarrytown
: STATE: New York
: COUNTRY: USA
: ZIP: 10591
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent in Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/456,265A
: FILING DATE: 31-MAY-95
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/181,271
: FILING DATE: 13-JAN-1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/093,301
: FILING DATE: 16-JUL-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/937,197
: FILING DATE: 6-NOV-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/678,378
: FILING DATE: 1-APR-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/305,566
: FILING DATE: 6-FEB-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/165,667
: FILING DATE: 8-MAR-1988
```



```

Db 121 CCGTCTCTATCCCGCGCGCGCGCGGTGACCAACGCGCAGCGGCGGACCGCG 280
QY 181 AGCGGACGACGAGCGCGCGGAGAGTACCTGGCGCGCGACAAACGCGCGCGCG 240
Db 181 AGCGGACGACGAGCGCGCGGAGAGTACCTGGCGCGCGCGACAAACGCGCGCG 240
QY 241 GTGGCGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 300
Db 241 GTGGCGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 300
QY 301 GCGGACGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 360
Db 301 GCGGACGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 360
QY 361 CGGACGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 420
Db 361 CGGACGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 420
QY 421 GCGGAGGCGCGGTACTACACCGCGCGCGCGCGCGCGCGCGCGCGCGCG 480
Db 421 GCGGAGGCGCGGTACTACACCGCGCGCGCGCGCGCGCGCGCGCGCGCG 480
QY 481 AGGTACGAGCGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 540
Db 481 AGGTACGAGCGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 540
QY 541 GCGGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 600
Db 541 GCGGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 600
QY 601 AGCCCTCTACTAG 612
Db 601 AGCCCTCTACTAG 612

```

RESULT 2

```

US-09-832-320-1
; Sequence 1, Application US/09812320
; Patent No. US20010049834A1
; GENERAL INFORMATION:
; APPLICANT: Crane, Edmund H.
; APPLICANT: Crane, Virginia C.
; TITLE OF INVENTION: Maize Pathogenesis-Related
; TITLE OF INVENTION: Polynucleotide and Methods of Use
; FILE REFERENCE: 35718/214291
; CURRENT APPLICATION NUMBER: US/09/832,320
; PRIOR FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: US 60/195,801
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 898
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)...(574)
US-09-832-320-1

```

```

Query Match 100.0%; Score 612; DB 9; Length 898;
Best Local Similarity 100.0%; Pred. No. 5e-117;
Matches 612; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGCGCACTCGCGGAGCGACGACGCGCGCGCGCGCGCGCGCGCGCGCG 50
Db 63 ATGGCGCACTCGCGGAGCGACGACGCGCGCGCGCGCGCGCGCGCGCGCG 122
QY 61 TCGTCTCTCTCGCCACCTCTCTCGCGGTCTGTGCGCGCGCGCGCGCGCGCG 120
Db 123 TCGTCTCTCTCGCCACCTCTCTCGCGGTCTGTGCGCGCGCGCGCGCGCG 182
QY 121 CCGTCTCTATCCCGCGCGCGCGCGCGGTGACCAACGCGCAGCGGTGGACCG 180

```

```

Db 183 CCGGTCTCTATCCCGCGCGCGCGCGCGGTGACCAACGCGCAGCGGTGGAC 242
QY 181 AGCGGAGCGACGAGCGCGGAGAGTACCTGGCGCGCGACAAACGCGCGCGCG 240
Db 243 AGCGGAGCGACGAGCGCGGAGAGTACCTGGCGCGCGCGACAAACGCGCGCG 302
QY 241 GTGGCGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 300
Db 303 GTGGCGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 362
QY 301 GCGGACGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 360
Db 363 GCGGACGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 422
QY 361 GCGGACGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 420
Db 423 GCGGACGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 482
QY 421 GCGGAGGCGCGGTACTACACCGCGCGCGCGCGCGCGCGCGCGCGCGCG 480
Db 483 GCGGAGGCGCGGTACTACACCGCGCGCGCGCGCGCGCGCGCGCGCGCG 542
QY 481 AGGTACGAGCGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 540
Db 543 AGGTACGAGCGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 602
QY 541 GCGGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 600
Db 603 GCGGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 662
QY 601 AGCCCTCTACTAG 612
Db 663 AGCCCTCTACTAG 674

```

RESULT 3

```

US-09-840-479-12
; Sequence 12, Application US/09840479
; Patent No. US20010025380A1
; GENERAL INFORMATION:
; APPLICANT: Crane, Virginia
; TITLE OF INVENTION: Family Of Maize PR-1 Genes And Promoters
; FILE REFERENCE: 5718-32, 035718/175219
; CURRENT APPLICATION NUMBER: US/09/840,479
; CURRENT FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: 09/257,583
; PRIOR FILING DATE: 1999-02-25
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 749
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (92)...(583)
US-09-840-479-12

```

```

Query Match 22.7%; Score 139; DB 9; Length 749;
Best Local Similarity 61.6%; Pred. No. 3.5e-20;
Matches 258; Conservative 0; Mismatches 155; Indels 6; Gaps 2;

QY 197 CGCGGAGCGAGTACCTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 256
Db 168 CGCGGAGCGAGTACCTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 227
QY 257 TGGGCGTGAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 316
Db 228 TG-CCTGGGAGCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 284
QY 317 AGCGCGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 376

```


Db 423 GTGTGGCGAGGTGTCCACCGGCATCGGCTCGCGGCGCGTGTCTGGCGGACACACGGG 482

QY 551 CCACGCTCAGCGTCTGGCTGTACACCGCGACGACACGTCGAGGGGACAGGCCCTAC 609

Db 483 GGGTCTCATCGTCTCGAGCTACGACCCCGGGGCAACGTCACGCGGACAGGCCGCTC 542

RESULT 8

```

US-09-840-479-14
; Sequence 14, Application US/09840479
; Patent No. US20010025380A1
; GENERAL INFORMATION:
; APPLICANT: Crane, Virginia
; TITLE OF INVENTION: Family Of Maize PR-1 Genes And Promoters
; FILE REFERENCE: 5718-32, 035718/175219
; CURRENT APPLICATION NUMBER: US/09/840.479
; CURRENT FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: 09/257,563
; PRIOR FILING DATE: 1999-02-25
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 806
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (42)..(685)
; NAME/KEY: unsure
; LOCATION: (775)
; OTHER INFORMATION: The nucleotide at this position may be a c g or t
; OTHER INFORMATION: or c.
US-09-840-479-14

```

Query Match:	19.9%	Score 121.8:	DB 9:	Length 306:
Best Local Similarity	60.6%	Pred. No. 1.26-15:		
Matches 254:	Conservative	0:	Mis-match 157:	Indels 8: Gaps 3
QY	196	ACGGGGCAGCAGTACCTGGCCGCGCAGACANACACGCGCGCGCGCGGTGGCGGTGGCGCGG	255	
DB	141	ACGCGCAGGACTTCGTGAA:CTGCACAAACGCGCGCGCGGCGAGCGCGTGGCGCGG	200	
QY	256	CTGGCGTGTGACGCGGGCTTGGTTCCGGCGCCGCGGGGACGCTGGCGCAGCAGCGCGG	315	
DB	201	GTGGGTGTGGAGCCGAGGTGGCCAGGTACSCGACGACTACSCGCGCAAGCGCGCGG	260	
QY	316	CAGGCGGGTGTGGCTTCGCGGAGCTGGGGGCCAGCCCTACGCGCGGAACACAGGCGTG	375	
DB	261	GACTCGCGCTGTGCATCTGGGC---GGGCCGTTCGGCGAGAGCATCTTCTGGGCTCG	317	
QY	376	GCGAGCTACCGCGCGCGCCGCCCGCAGGTGGTGGCGCTGTGGGTGGCGGAGGCGCGTAC	435	
DB	318	CGGGGCGGGCGCTGGAGCGCGCCGACGCGTTCGGGTCTGGGTGGACGAGAGAGAAAC	377	
QY	436	TACACCCACGCCCAACACAGCTGGCGCGCGGGGCGCGAGTTGGCGCAGGTACACGCGAGTGG	495	
DB	378	TACCACCTGAGCAGCAACACCTTGCACGCCCGGCAAGGTGTCCGCGCCACTACACGAGGTG	437	
QY	496	GTCGTGGCGCA--ACACCCCGCAGGTTCGGTTCGGCGCAGGCGACGTGGGC---CACGGGGG	550	
DB	438	GTTGGCGCAGGTGTCCACCCCGATCGGCTGCGCGCGCGTGTCTGGCCGCAACACCGG	497	
QY	551	CCACGCTACGCTTGTGCTGTACACCCGCGACGCAACGTCGAGGGCCGACGCCCCCTAC	609	
DB	498	GGGTCTTCACTGCTGCAAGTACACACCCCGCGGCAACGTCACAGCGCACGCGCCGCTTC	556	

RESULT 9

US-10-259-165-345
: Sequence 345, Application US/10259165
: Publication No. US20030135888A1
: GENERAL INFORMATION:

```

1  APPLICANT: Zhu, Tong
2  APPLICANT: Wang, Xun
3  APPLICANT: Chang, Hui-song
4  APPLICANT: Briggs, Steven P.
5  APPLICANT: Cooper, Brei
6  APPLICANT: Glazebrook, Jane
7  APPLICANT: Goff, Stephen A.
8  APPLICANT: Katagiri, Fumiyaki
9  APPLICANT: Kreps, Joel
10 APPLICANT: Moughamer, Todd
11 APPLICANT: Provart, Nicholas
12 APPLICANT: Ricke, Darrell
13
14 TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCI
15
16 FILE REFERENCE: 70030-NP
17
18 CURRENT APPLICATION NUMBER: US/10/259,165
19
20 CURRENT FILING DATE: 2002-09-26
21
22 PRIOR APPLICATION NUMBER: US 60/370,620
23
24 PRIOR FILING DATE: 2002-04-04
25
26 PRIOR APPLICATION NUMBER: US 60/368,327
27
28 PRIOR FILING DATE: 2002-03-27
29
30 PRIOR APPLICATION NUMBER: US 60/325,277
31
32 PRIOR FILING DATE: 2001-09-26
33
34 NUMBER OF SEQ ID NOS: 782
35
36 SOFTWARE: PatentList.pl version: 3.0.4 (C) 2001 Syngenta
37
38 SEQ ID NO 345
39
40 LENGTH: 528
41
42 TYPE: DNA
43
44 ORGANISM: Oryza sativa
45
46 US-10-259-165-345

```

```

Query Match      19.2%: Score 117.4: DB 12: Length 528;
Best Local Similarity 55.4%: Pred. No. 1e-15;
Matches 270: Conservative 0: Mismatches 211: Indels 6: Gaps 2:

QY      126  CGCATGCGCGCGCGCGCGCGGTTGACCAAGCGGACAGAGGTGSCACCGGSCAGCGG 185
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      21  CCTGCGCCGCTGCTGCGCGTGGCCATCTGCTGGCATGGCGGCCACACACACACCTC 80

QY      186  GAGCAACGCGAGGCGGAGCAGTACCTTGGGCCGACACACAGCGCGCGCGGTGGG 245
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      81  GCGCGAGAACACGCGCGAGGACTACGTCAACTGCACACAGCGCGCGCGGACGG 140

QY      246  CGTGGCGCGCTGCTGGTGGACAGCGGGGCTGGCTTCGGCGCCGCGCGGAGGTGGCGCA 305
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      141  CGTGGCGCGGTGAGTGGGACCGCAAGGTGCGCAGCTTGGCGGAGACTACGCGGCGAA 200

QY      306  GCAGGCGGCGAGGCGGCGTGGCTTGGCGGAGTGGGGGCCAGCCCTACGCGCGGAA 365
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      201  GCGCGCGGCGACTGCGGCTGCCAGACTCCGGCGGGCGGTACGCGCGAGACATCTT--- 257

QY      366  CCAGGGGTGGGGAGCTACGCGCGCGCGCGCGCGAGGTGGTGGCTGTGGGTGGCGGA 425
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      258  CTGGGGCTGGCGGGGCGCGCTCGAGCGCGCGGAGCGGTGGCTGCTGGTGGCGGA 317

QY      426  GGGCGGTACTACCCACGCGCAACACACAGCTGGCGCGCGGGCGGACGTGGCGCACTA 485
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      318  GAAGAAAGAACTACCACTACGACACACAGTGGCAACCGGCGCAAGTGTGCGGCCACTA 377

QY      486  CAGCAGGFGGTGGCGCAACACGCGGAGGTGGGTGGCGCGGACGACGCTGCGGCAC 545
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      378  CACCAGGTGTGTGGCGAAGTGGTGGCATGGGTGGCGCGCGCTGCTGTGGCGCGG 437

QY      546  G---GGCGCCAGCTCAGCTCTGCCTGTACACCGCAGCGGCAACGTGCAAGGCGCAG 602
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      438  GAACGCGCGGTGTTCATACCTGCAACTAGCACCGCGCGCGGCAACTCAACGCGGAGG 457

QY      603  CCGCTAC 609
      |||||  |||||
Db      498  CCGGTC 504

RESULT 10
US-10-259-165-85

```

Sequence 85, Application US/10259165
Publication NO. US2003013588A1
GENERAL INFORMATION:
APPLICANT: Zhu, Tong
APPLICANT: Wang, Xun
APPLICANT: Chang, Hui-Song
APPLICANT: Briggs, Steven P.
APPLICANT: Cooper, Bret
APPLICANT: Glazebrook, Jane
APPLICANT: Goff, Stephen A.
APPLICANT: Kalagiri, Fumiyuki
APPLICANT: Kreps, Joel
APPLICANT: Moughamer, Todd
APPLICANT: Provart, Nicholas
APPLICANT: Rieke, Darrel
TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
FILE REFERENCE: 70030-NP
CURRENT APPLICATION NUMBER: US/10259,165
CURRENT FILING DATE: 2002-09-26
PRIOR APPLICATION NUMBER: US 60/370,620
PRIOR FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: US 60/358,327
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: US 60/325,277
PRIOR FILING DATE: 2001-09-26
NUMBER OF SEQ ID NOS: 782
SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 SynGene
SEQ ID NO 85
LENGTH: 531
TYPE: DNA
ORGANISM: Oryza sativa
US-10-259-165-85

Query Match 19.2%; Score 117.4; DB 12; Length 531;
Best Local Similarity 55.4%; Pred. No. 1e-15;
Matches 270; Conservative 0; Mismatches 211; Indels 6; Gaps 2;
QY 126 CCTCATCCCGGGCGCGCGCGGTGACCAAGGCGACAGCGGTGGACCGCGGACGG 185
DB 21 CCTCGCGCGGTCTCGCGCTGGCCATCTCGCTGGCCATCGCGCGCCACCAACACCTC 80
QY 186 CAGCAAGGCGAGCGGCGGACGAGTACCTGGCGCGCACAAACAGCGCGCGCGCGTGGG 245
DB 81 GCGCGCAAGACACCGCGGCACTAGCTCAACCTGTCACACAGCGCGCGCGCGGACGG 140
QY 246 CTTGGCCCGCTCGGTGGAACCGGCGCTGGCTTGGCGCGCGCGCGCGGAGCGGCA 395
DB 141 CTTGGCGCGCGGTGAGCTGGCGGACCGCCAAAGGTGCGCAGCTTGGCGCAGGCTACCGCGCGCA 200
QY 306 GCAGCGCGCGGCGGCGGTGCGCGTTCGCGGACGTGGCGCGCGCGCGCGCGCGCA 365
DB 201 GCGCGCGCGGACTCGCGGTGCGGACTCGCGCGCGCGCGCGCGCGCGCAATCT--- 257
QY 366 CCAGCGGTGGCGAGCTACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 425
DB 258 CTGGCG 377
QY 426 GGGCGGCTACTACCGCACCGCAACACGTGGCGCGCGCGCGCGCGCGCGCGCGCG 485
DB 318 GAGAGAGAACTACCTACACACACACACACACACACACACACACACACACACAC 377
QY 486 CAGCAGGTGCTGTGGCGCAACACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 545
DB 378 CACCCAGGTGTTGGCGCAAGTCGTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 437
QY 546 G---GGCGCGCGCGTACGCTGTCGCTGTACACCGCGCGCGCGCGCGCGCGCGCG 602
DB 438 GAACCGCGCGCGGTGTTTATCATCACCACCACTACGACCGCGCGCGCGCGCGCG 497
QY 603 CCCTAC 609
DB 498 CCCTTC 504

RESULT 11
US-10-078-929-85
Sequence 85, Application US/10078329
Publication NO. US20020152497A1
GENERAL INFORMATION:
APPLICANT: Rafalski, Antoni
APPLICANT: Miao, Guo-Hua
APPLICANT: Falco, Saverio Carl
APPLICANT: Sakai, Hajime
APPLICANT: Famodu, Omolayo O.
APPLICANT: Odeli, Joan T.
APPLICANT: Meyers, Blake
APPLICANT: Thorpe, Catherine
APPLICANT: Weng, Zude
TITLE OF INVENTION: Nucleic Acid Fragments Encoding Proteins Involved in
FILE REFERENCE: Stress Response
FILE REFERENCE: BBI357 US NA
CURRENT APPLICATION NUMBER: US/10/078,929
CURRENT FILING DATE: 2002-02-19
PRIOR APPLICATION NUMBER: 09/566,394
PRIOR FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/133038
PRIOR FILING DATE: 1999-05-07
PRIOR APPLICATION NUMBER: 60/133042
PRIOR FILING DATE: 1999-05-07
PRIOR APPLICATION NUMBER: 60/133427
PRIOR FILING DATE: 1999-05-11
PRIOR APPLICATION NUMBER: 60/133437
PRIOR FILING DATE: 1999-05-11
PRIOR APPLICATION NUMBER: 60/133428
PRIOR FILING DATE: 1999-05-11
PRIOR APPLICATION NUMBER: 60/133438
PRIOR FILING DATE: 1999-05-11
PRIOR APPLICATION NUMBER: 60/133436
PRIOR FILING DATE: 1999-05-11
PRIOR APPLICATION NUMBER: 60/137667
PRIOR FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 208
SOFTWARE: Microsoft Office 97
SEQ ID NO 85
LENGTH: 714
TYPE: DNA
ORGANISM: Oryza sativa
US-10-078-929-85
Query Match 19.2%; Score 117.4; DB 13; Length 714;
Best Local Similarity 55.4%; Pred. No. 9.5e-16;
Matches 270; Conservative 0; Mismatches 211; Indels 6; Gaps 2;
QY 126 CCTCATGCGCGCGCGCGCGGTGACCAAGGCGACAGCGGTGGACCGCGGACGG 185
DB 39 CTTGGCGCGGTGCTGGCGGTGGCGATCTGGCTGGCGATGCGCGCGCGCGCGCGCG 98
QY 186 CAGCAAGCGCGCGCGGAGGAGTACCTGGCGCGCGCACAAACCGCGCGCGCGCGGTGG 245
DB 99 GCGCGAGAACACCGCGCGGACTAGCTCAACCTGTCACACAGCGCGCGCGCGCGCG 158
QY 246 CTTGGCGCGGTGGCGGTGGAGCGCGGTGGCTTGGCGCGCGCGCGCGCGCGGTGGCG 305
DB 159 CTTGGCGCGGTGAGCTGGGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 218
QY 306 CAGCGCGCGCGCGCGGTGGCGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 365
DB 219 GCGCGCGCGCGCGGTGGCGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 275
QY 366 CCAGCGGTGGCGAGCTACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 425
DB 276 CTTGGCGCGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 335
QY 426 GGGCGGTGACTACCG 485
DB 336 GAAGAAGAACTACCACTACGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 395

QY 605 COTACTAG 612
 |||||
Db 491 COTACTAG 498

Search completed: October 17, 2003, 14:12:29
Job time : 157.934 secs


```

; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H3Kv
US-09-103-840A-1

Query Match 7.3%; Score 66; DB 3; Length 4411529;
Best Local Similarity 48.5%; Pred. No. 0.0032;
Matches 252; Conservative 0; Mismatches 255; Indels 13; Gaps 2;

Qy 95 CTGCTCCCCCGCCCATGGCCAGCGGTGTTGCTTCICGCCACCCCTCTCGCGCTCTG 155
Db 1217716 CTGCGCTCAGCGGTAGCGCAACGGCGCGCGCGGACAGCGCCGTGGCGGCACG 1217775

Qy 156 GCGCGCGCGCGCGCACCGACCGCGCGCGGTCTCTATCGCGGGCGCGGGCGCGGTG 215
Db 1217776 GCGCGCGCGCGCGCGAGCGCGCGCGCGGTCTGTGTGGACACCGCGCGCGCGG 1217835

Qy 216 ACCAAGCGCGACGAGGGTGTGCACCGCGCGCAGCAACGCGACGGCGGACGAGTAGCTG 275
Db 1217836 GTGACGCGCGGCGCGCGCGCGCC-----3TCGTCAAGCGCGGTGACGCGCGG 1217883

Qy 275 GCGCGCGCAACGAGCGCGCGCGCGGTGTGCGGTGTGCGCGGTGTGACCGCGCG 335
Db 1217884 CC3CGCGCGCGACGCGGATCGCGCGCTTGGCGCGGTGTGCGCGCGCGCGGTG 1217943

Qy 336 CTGGCTTCGGCGCGCGCGGAGCGGTGGCGCACAGCGGGCGGCGAGCGGGTCTCGGCTC 395
Db 1217944 GCAGCGGTGTGACGCGCGCGCGCGCGCGCGCGCGCGCGCGTGTGCGCGATG 1218003

Qy 396 GCGACGTGGCGGCGACCGCTACGGCGCGGACGAGGGTGGCGAGACTACCGCGCGCG 455
Db 1218004 GCGGCGCTGGCGG-GAACGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1218062

Qy 456 CCGCGCGAGGTGCGGCTGTGCGTGGCGAGGGGCGGTACACCCACGCGCACAC 515
Db 1218063 GTTGGCGCGGGAACCGCGCGCAATGGCGCGCAACGCGCGCAATGCGCGCATG 1218122

Qy 516 ACGTGGCGCGCGCGCGCGAGTCGCGCACGTACACGCGGTGTGTGGCGCAACACCGCG 575
Db 1218123 GCGCGCACCGCGGCGTGGCTGTACGCGCAACGCGCGCGCGCGCGCGCGCGCGCGCG 1218182

Qy 576 GAGTTCGGTGGCGCGACGCGAGCTGCGCGCACCGCGCGCA 615
Db 1218183 GGAGCGCGCGAGCGCGCGCGCTAAGCGCGTCAGCAGCACCA 1218222

RESULT 9
US-09-103-840A-1/c
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00

```



```

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-181-271A-11

Query Match 7.2% Score 65; DR 1; Length 696;
Bos: Local Similarity 56.2%; Pred. No. 0.0021;
Matches 122; Conservative 0; Mismatches 95; Indels 0; Gaps 0

QY 457 CCGCCGAGGTGGTGGCGCTGTGGTGGCGAGGGGGGCTACTACAGCCGACCAACAACA 516
DB 319 CCGCTAAGGCGGTGGAGATGTGGTCAATGAGAAACATATTATGCCACGAGCTCAACA 378
QY 517 GGTGGCCCGCGGCGCGACATGGGCACGTCACAGCGAGGTGGTGGCGACACACCGCGG 576
DB 379 CTTTGGCCCAAGGACAGGTGTGGACACACATATACAGGTGGTTGGCGTAACCTCGGHTC 438
QY 577 AGGTGGGTGGTGGCGAGCGAGGTGGCGCCACGGCGCGCGCGTGTACGGTCTGCGTGTACA 635
DB 439 GTGTTGGATGCTAGGGTTCACTGTACAAATGGAGCAATATTTGTCTTTCACATG 498

QY 637 ACCGCCAGCGCAAGTGTGACGGCGCAGCGCCCTACTA 673
DB 459 ATCTCCAGTAAATGTTATAGGCAAAAGCCACTA 535

RESULT 11
US-08-449-315-11
: Sequence 11, Application US/08449315
: Patent No. 5650505
: GENERAL INFORMATION:
: APPLICANT: Ryals, John A.
: APPLICANT: Alexander, Danny C.
: APPLICANT: Beck, James J.
: APPLICANT: Duesing, John H.
: APPLICANT: Friedrich, Leslie B.
: APPLICANT: Goodman, Robert M.
: APPLICANT: Harms, Christian
: APPLICANT: Meins, Jr., Frederick
: APPLICANT: Montoya, Alice
: APPLICANT: Moyer, Mary B.
: APPLICANT: Neuhaus, Jean-Marc
: APPLICANT: Payne, George B.
: APPLICANT: Sperison, Christoph
: APPLICANT: Stinson, Jeffrey R.
: APPLICANT: Uknes, Scott J.
: APPLICANT: Ward, Eric R.
: APPLICANT: Williams, Shericca C.
: TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
: TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
: NUMBER OF SEQUENCES: 106
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: CIBA-GEIGY Corporation
: STREET: 7 Skyline Drive
: CITY: Hawthorne
: STATE: New York
: COUNTRY: USA
: ZIP: 10532
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent'n Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/449,315
: FILING DATE: 24-MAY-1995
: CLASSIFICATION: 800
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/181,271
: FILING DATE: 13-JAN-94
: APPLICATION NUMBER: US 08/093,301
: FILING DATE: 16-JUL-1993
: PRIOR APPLICATION DATA:

```

```
? APPLICATION NUMBER: US 07/937,137
? FILING DATE: 6-NOV-1992
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/678,378
? FILING DATE: 1-APR-1991
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/305,566
? FILING DATE: 6-FEB-1989
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/165,667
? FILING DATE: 8-MAR-1988
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/042,847
? FILING DATE: 6-APR-1993
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/632,441
? FILING DATE: 21-DEC-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/425,504
? FILING DATE: 20-OCT-1989
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/848,506
? FILING DATE: 6-MAR-1992
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/768,122
? FILING DATE: 27-SEP-1991
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/580,431
? FILING DATE: 7-SEP-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/368,672
? FILING DATE: 20-JUN-1989
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/325,018
? FILING DATE: 24-MAR-1989
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 09/045,957
? FILING DATE: 12-APR-1993
? ATTORNEY/AGENT INFORMATION:
? NAME: Elmer, James Scott
? REGISTRATION NUMBER: 36,129
? REFERENCE/DOCKET NUMBER: S-13825/P1/CGC 1727
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (919)541-8614
? TELEFAX: (919)541-8689
? INFORMATION FOR SEQ ID NO: 1:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 696 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: cDNA
? US-08-449-315-11

Query Match. 7.2%; Score 65; DB 1; Length 696;
Rest Local Similarity 56.2%; Pred. No. 0.0021;
Matches 122; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 457 CCGCGGAGGTGTGGCGCTGGTGGCGGNGGGGGTACTACACCCAGCCACACACA 516
DB 319 CCCTAAGCGGTCGAGATGGGTCAATGAGAAACAGTATTATGCCACGACTCAACACA 378
QY 517 CGTGCRCGCGGCGGCGGACGTCGACGACGAGGTGTGTGGCCACACACCCGCG 576
DB 379 CTGTGCGCAAGACACAGGTGTGTGGACACTATCTACGTGTGTGGCGTACTCGGTC 438
QY 577 AGTTCGGGTGCGGCGGCGGAGCTGGCGCCACGCGGCCACGCTCTGCCTGTACA 636
DB 439 GTGTGTGATGTGTAGGTTCAGTGTAAACAAAGGAGGATATTCTCTTCGCAACTATG 498
QY 637 ACCGCGACGCAACGTCGAGCGGCGGAGCGCCCTACTA 673
DB 499 ATCTCCAGTATGTTATAGGCAAAAGCCCATCTA 535

US-38-444-803-11
: Sequence 1: Application US/08444803
: Patent No. 5654414
: GENERAL INFORMATION:
: APPLICANT: Ryals, John A.
: APPLICANT: Alexander, Danny C.
: APPLICANT: Beck, James J.
: APPLICANT: Duesing, John H.
: APPLICANT: Friedrich, Leslie B.
: APPLICANT: Goodman, Robert M.
: APPLICANT: Harms, Christian
: APPLICANT: Meins, Jr., Frederick
: APPLICANT: Montoya, Alice
: APPLICANT: Moyer, Mary B.
: APPLICANT: Neuhaus, Jean-Marc
: APPLICANT: Payne, George B.
: APPLICANT: Sperison, Christoph
: APPLICANT: Stinson, Jeffrey P.
: APPLICANT: Uknes, Scott J.
: APPLICANT: Ward, Eric R.
: APPLICANT: Williams, Shericca C.
: TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
: NUMBER OF SEQUENCES: 106
: TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: CIBA-GEIGY Corporation
: STREET: 7 Skyline Drive
: CITY: Hawthorne
: STATE: New York
: COUNTRY: USA
: ZIP: 10532
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version: #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/444,803
: FILING DATE: 19-MAY-1995
: CLASSIFICATION: 536
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/191,271
: FILING DATE: 13-JAN-94
: APPLICATION NUMBER: US 08/093,301
: FILING DATE: 16-JUL-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/537,197
: FILING DATE: 6-NOV-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/678,378
: FILING DATE: 1-APR-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/305,566
: FILING DATE: 6-FEB-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/165,667
: FILING DATE: 8-MAR-1988
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/042,847
: FILING DATE: 6-APR-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/632,441
: FILING DATE: 21-DEC-1990
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/425,504
: FILING DATE: 20-OCT-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/848,506
: FILING DATE: 6-MAR-1992
: PRIOR APPLICATION DATA:
```

```

/ APPLICATION NUMBER: US 07/768,122
/ FILING DATE: 27-SEP-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/580,431
/ FILING DATE: 7-SEP-1990
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/368,672
/ FILING DATE: 20-JUN-1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/325,018
/ FILING DATE: 24-MAR-1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/045,957
/ FILING DATE: 12-APR-1993
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Elmer, James Scott
/ REGISTRATION NUMBER: 36,129
/ REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (919)541-8614
/ TELEFAX: (919)541-8689
/ INFORMATION FOR SEQ ID NO: 11:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 696 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ US-08-444-803-11

Query Match          7.2%: Score 65: DB 1: Length 696;
Best Local Similarity 56.2%: Pred. No. 0.0021;
Matches 122: Conservative 0: Mismatches 95: Indels 0: Gaps 0:

QY 457 CGCGGAGGTGGTGGCTGGTGGCGGAGGGCGGTACTACACCGCCCAACAA 516
DB 319 CGCTAAGCGCGTGGAGATGTGGCTCAATGAGAACAAGATATTATGCCCGGACCTCAA 378
QY 517 CTTGGCGCGCGGGCGGCGAGTGGCGGAGGTACACGCGGAGTGGCGGCAACACGCGCG 576
DB 379 CTTGGCGCGGAGGACAGGTGTGGGACACTATATCAGGTGGTGGCTAACTCGGTTC 438
QY 577 AGGTGGGTGGCGGAGCGAGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 636
DB 439 GTGTTGGATGTGCTAGGTTGAGTGTAAACAATGAGGATATATGTCTCTTGGCAACTAIG 498
QY 637 ACCCGCAGCGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 673
DB 499 ATCCCTCAGGTANTGTATTAGGCAAAAGCCCATACTA 535

RESULT 13
US-08-449-043-11
/ Sequence 11, Application US/08449043
/ Patent No. 5689044
/ GENERAL INFORMATION:
/ APPLICANT: Ryals, John A.
/ APPLICANT: Alexander, Danny C.
/ APPLICANT: Beck, James J.
/ APPLICANT: Duesing, John H.
/ APPLICANT: Friedrich, Leslie B.
/ APPLICANT: Goodman, Robert M.
/ APPLICANT: Harms, Christian
/ APPLICANT: Meins, Jr., Frederick
/ APPLICANT: Montoya, Alice
/ APPLICANT: Moyer, Mary B.
/ APPLICANT: Neuhaus, Jean-Marie
/ APPLICANT: Payne, George B.
/ APPLICANT: Sperison, Christoph
/ APPLICANT: Stinson, Jeffrey R.
/ APPLICANT: Uknes, Scott J.
/ APPLICANT: Ward, Eric R.
/ APPLICANT: Williams, Shericca C.

/ TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
/ TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
/ NUMBER OF SEQUENCES: 106
/ CORRESPONDENCE ADDRESS:
/ ADDRESSES: CIBA-GEIGY Corporation
/ STREET: 7 Skyline Drive
/ CITY: Hawthorne
/ STATE: New York
/ COUNTRY: USA
/ ZIP: 10532
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/449,043
/ FILING DATE: 24-MAY-1995
/ CLASSIFICATION: 800
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/181,271
/ FILING DATE: 13-JAN-94
/ APPLICATION NUMBER: US 08/093,301
/ FILING DATE: 16-JUL-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/937,197
/ FILING DATE: 6-NOV-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/678,378
/ FILING DATE: 1-APR-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/305,566
/ FILING DATE: 6-FEB-1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/165,567
/ FILING DATE: 8-MAR-1988
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/042,847
/ FILING DATE: 6-APR-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/632,441
/ FILING DATE: 21-DEC-1990
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/425,504
/ FILING DATE: 20-OCT 1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/848,506
/ FILING DATE: 6-MAR-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/768,122
/ FILING DATE: 27-SEP-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/580,431
/ FILING DATE: 7-SEP-1990
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/368,672
/ FILING DATE: 20-JUN-1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/329,018
/ FILING DATE: 24-MAR-1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/045,957
/ FILING DATE: 12-APR-1993
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Elmer, James Scott
/ REGISTRATION NUMBER: 36,129
/ REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (919)541-8614
/ TELEFAX: (919)541-8689
/ INFORMATION FOR SEQ ID NO: 11:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 696 base pairs
```

```

: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
US-08-449-043-11

Query Match
Best Local Similarity 56.2%; Score 65; DB 1; Length 696;
Matches 122; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 457 CCGCCGAGGTGGCGGTGGTGGCGGAGGCGGTACTACACCCAGCCCAACAACA 516
DB 319 CCGCTAAGCCCTCGAGATGCGTCAATGAGAAACAGTATATGCCCCAGCACTCAACA 378
QY 517 CGTGGCCCGCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 576
DB 379 CTTGTGCCCAAGGACAGAGTGGTGGACACTATACCTAGTGGTGGTGGTGGTGGT 438
QY 577 AGTGGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 636
DB 439 GTGTGGATGTCCTAGGTTTCAGTGTACAAATGAGGAGTATATTTCTCTGCAACTATG 496
QY 637 ACCCCAGCCGCAACGTGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 673
DB 499 ATCCCTCAGGTAATGTTATAGGCAAAAGGCCATACIA 535

RESULT 14
US-08-456-265A-11
: Sequence 11, Application US/08456265A
: Patent No. 5767369
: GENERAL INFORMATION:
: APPLICANT: Alexander, Danny C.
: APPLICANT: Ryals, John A.
: APPLICANT: Goodman, Robert M.
: APPLICANT: Stinson, Jeffrey R.
: TITLE OF INVENTION: CHEMICALLY REGULABLE AND ANTI-PATHOGENIC
: TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
: NUMBER OF SEQUENCES: 111
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: CIBA-GEIGY Corporation
: STREET: 520 White Plains Road, P.O. Box 2005
: CITY: Tarrytown
: STATE: New York
: COUNTRY: USA
: ZIP: 10591
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/456,265A
: FILING DATE: 31-MAY-95
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/181,271
: FILING DATE: 13-JAN-1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/093,301
: FILING DATE: 16-JUL-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/937,197
: FILING DATE: 6-NOV-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/676,378
: FILING DATE: 1-APR-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/305,566
: FILING DATE: 6-FEB-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/165,667
: FILING DATE: 8-MAR-1988

: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
US-08-449-043-11

Query Match
Best Local Similarity 56.2%; Score 65; DB 1; Length 696;
Matches 122; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 457 CCGCCGAGGTGGCGGTGGTGGCGGAGGCGGTACTACACCCAGCCCAACAACA 516
DB 319 CCGCTAAGCCCTCGAGATGCGTCAATGAGAAACAGTATATGCCCCAGCACTCAACA 378
QY 517 CGTGGCCCGCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 576
DB 379 CTTGTGCCCAAGGACAGAGTGGTGGACACTATACCTAGTGGTGGTGGTGGTGGT 438
QY 577 AGTGGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 636
DB 439 GTGTGGATGTCCTAGGTTTCAGTGTACAAATGAGGAGTATATTTCTCTGCAACTATG 496
QY 637 ACCCCAGCCGCAACGTGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 673
DB 499 ATCCCTCAGGTAATGTTATAGGCAAAAGGCCATACIA 535

RESULT 15
US-08-455-416-11
: Sequence 11, Application US/08455416
: Patent No. 5777200
: GENERAL INFORMATION:
: APPLICANT: Ryals, John A.
: APPLICANT: Alexander, Danny C.
: APPLICANT: Beck, James J.
: APPLICANT: Duesing, John H.
```

```

: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
US-08-456-265A-11

Query Match
Best Local Similarity 56.2%; Score 65; DB 1; Length 696;
Matches 122; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 457 CCGCCGAGGTGGCGGTGGTGGCGGAGGCGGTACTACACCCAGCCCAACAACA 516
DB 319 CCGCTAAGCCCTCGAGATGCGTCAATGAGAAACAGTATATGCCCCAGCACTCAACA 378
QY 517 CGTGGCCCGCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 576
DB 379 CTTGTGCCCAAGGACAGAGTGGTGGACACTATACCTAGTGGTGGTGGTGGTGGT 438
QY 577 AGTGGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 636
DB 439 GTGTGGATGTCCTAGGTTTCAGTGTACAAATGAGGAGTATATTTCTCTGCAACTATG 496
QY 637 ACCCCAGCCGCAACGTGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 673
DB 499 ATCCCTCAGGTAATGTTATAGGCAAAAGGCCATACIA 535

RESULT 15
US-08-455-416-11
: Sequence 11, Application US/08455416
: Patent No. 5777200
: GENERAL INFORMATION:
: APPLICANT: Ryals, John A.
: APPLICANT: Alexander, Danny C.
: APPLICANT: Beck, James J.
: APPLICANT: Duesing, John H.
```

Search completed: October 17, 2003, 12:51:07
Job time : 78.2808 secs

US-09-840-479-12

Query Match 15.5%; Score 139; DB 9; Length 749;
Best Local Similarity 61.6%; Pred. No. 3.2e-21;
Matches 256; Conservative 0; Mismatches 155; Indels 5; Gaps 2;

QY 259 CGCGGACGAGTACCTGGCCGCCACACAGCGCGCGGGGTGGGCGGCGG 318
DB 168 CGCGGACGAGTACCTGGGACCGCCACACAGCGCGCGGGGTGGGCGGCGG 227

QY 319 TGGGTTGGAACCGGGGCTTGGGCGCGCGGGGAGAGTGGGCGACACCGGCG 376
DB 228 TGGCTGGGACGACACCGTGGCG---GCGTACGCGGAGAGTACGGCGGCGACGCGG 284

QY 379 AGGGCGGGGTTCGGCGAGCTGGGGGCGGCGGCGGCGGCGGCGGCGGCGG 438
DB 285 GCGACTGCCAGCTGATCCACTCCGCGGGGCGCTACCGGCGGAGACTCTCTGCGGCTCG 344

QY 439 CGAGCTACCGCGCGCGCGCGCGGAGTGGTGGCGGTGTGGGTGGGCGGCGGCTACT 498
DB 345 CGGGCGCGGACTGGTGGGCGTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 404

QY 499 ACACCCACGCAACACACAGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 558
DB 405 ACAGCCAGCACACACAGCTGGCGGAGGCGGCGGCGGCGGCGGCGGCGGCGG 464

QY 559 TGTGGCGCAACCGCGGAGTGGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCG 615
DB 465 TGTGGCGGAGTGGTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 524

QY 616 CGCTCAGCTGCTGCTGCAACCGCGGCGGCGGCGGCGGCGGCGGCGGCGG 674
DB 525 TCCTCATCTCAGCTACACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 583

RESULT 4
US-09-840-479-6
; Sequence 6, Application US/09840479
; Patent No. US20010025380A1
; GENERAL INFORMATION:
; APPLICANT: Crane, Virginia
; TITLE OF INVENTION: Family Of Maize PR-1 Genes And Promoters
; FILE REFERENCE: 5718-32, 035718/175219
; CURRENT APPLICATION NUMBER: US/09/840.479
; CURRENT FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: 09/257,585
; PRIOR FILING DATE: 1999-02-25
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 866
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: {111}..{581}

Query Match 15.3%; Score 137.6; DB 9; Length 866;
Best Local Similarity 62.4%; Pred. No. 6.7e-21;
Matches 267; Conservative 0; Mismatches 154; Indels 7; Gaps 3;

QY 259 CGCGGACGAGTACCTGGCGCGCGCACACAGCGCGGCGGCGGCGGCGGCGGCGG 318
DB 145 CGCGGACGAGTTCGTGAACCGCGCACAA:CGGGCGCGCGCGCGCGGCGGCGGCGGCGG 214

QY 319 TGGGTTGGAACCGGGGCTTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 378
DB 205 TGTCTGGGA:GAGACGTGGCCCTTCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 264

QY 379 AGGGCGGGTGGCGGTTCGCGAGCTGGGGCGGCGGCGGCGGCGGCGGCGGCGG 438
DB 265 ACTGCAAGCTGGTCACTTCGCGAGCTGGGGCGGCGGCGGCGGCGGCGGCGGCGG 324

QY 439 CGAGTACCGGCG---GCGCGCGCGCGAGGTGGTGGGCGTGGGCGGCGGCGGCGG 495
DB 325 CGCGGCGAGCGCTGGAAAGCGTGCAGCGCTTGGGCGTGGGCGGCGGCGGCGG 384

QY 496 ACTACCGCGACCGCAACACAG:GCGCGCGCGGCGGCGGCGGCGGCGGCGGCGG 555
DB 385 ACTAGGATTACACAGCAACAGCTGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGG 444

QY 556 TGGTGTGGCGCAACACCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 612
DB 445 TCGTCTGGCGCA-ATCCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 503

QY 613 CGAGCTCAGCTCTGCTGTACACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 672
DB 504 CGGCTTCATCAGCTGCAACTACAAACCGCGGCGGCGGCGGCGGCGGCGGCGGCGG 563

QY 673 AGCTAGCT 680
DB 564 AGCTAGCT 571

RESULT 5
US-10-259-165-774
; Sequence 774, Application US/10253165
; Publication No. US20030135888A1
; GENERAL INFORMATION:
; APPLICANT: Zhu, Tong
; APPLICANT: Wang, Xun
; APPLICANT: Chang, Hui-song
; APPLICANT: Briggs, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Fumiyak
; APPLICANT: Kreps, Joel
; APPLICANT: Moughamer, Todd
; APPLICANT: Provart, Nicholas
; APPLICANT: Rickes, Dorell
; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
; FILE REFERENCE: 70030-NP
; CURRENT APPLICATION NUMBER: US/10/259.165
; CURRENT FILING DATE: 2002-09-26
; P6-OR APPLICATION NUMBER: US 60/130,620
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/368,327
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta
; SEQ ID NO 774
; LENGTH: 654
; TYPE: DNA
; ORGANISM: Zea mays
US-10-259-165-774

Query Match 15.2%; Score 136.5; DB 12; Length 654;
Best Local Similarity 56.6%; Pred. No. 1e-20;
Matches 294; Conservative 0; Mismatches 219; Indels 6; Gaps 2;

QY 200 CGCGCGCGCGGTGACCAAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 259
DB 45 CGCTGTGGCGCGCATGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 104

QY 260 GCGGACGAGTACCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 319
DB 105 GCGGACGAGTTCGTGAACCTGCAACCGCGGCGGCGGCGGCGGCGGCGGCGGCGG 164

QY 320 GCGGTGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 379
DB 165 GCGGTGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 224


```
Db 126 ACGCGCAGGACCTTCGTGAATCTGCACAAACGCGCGCGGAGACCGGCTGGCGCCG 185
Qy 318 CTGGGTGGAACGGGGGCTGGCTTCGGCGCGCGCGGAGGCTGGCGACAGCGCGG 377
Db 186 GTGGGTGGAGCGCGAGGTGGCCAGGTACCGGAGAGTACGGCGGCGAGCGCGCGG 245
Qy 378 CAGGGGGGTTCGGGTTCGGGAGGTGGGGCCAGCGCCCTACGCGGGAACAGGGGTGG 437
Db 246 GACTGCGGGCTGGTGCATCGGGC---GGCGCGTTCGCGAGAGCATCTTCGGGGCTCG 302
Qy 438 CCGAGCTACCGCGCGCGCGCGCGCGAGGTGAGCGGCTGTGGGTAGCGAGAGCGGTAC 497
Db 303 CCGGGGGGGGGGTGGAGCGCGCGCGACGCGCTGGGGTGTGGGTGGAGAGAGGAAC 362
Qy 498 TACACCCACCGCAACACACGCTGCGCGCGCGGCGGCGGAGTGCAGTACACGCGAGTG 557
Db 363 TACCACCTGAGCAGCAACCTGGACCGCGCGCAAGGTGTGGGCGCACTACACCGAGTG 422
Qy 558 GTGTGGGGCA--ACACCGCGGAGTGGGGTCCGGCGAGGCCAGGTGGC---CACGGGCG 612
Db 423 GTGTGGCGCAGGTCTCCACCGCGCATCGCTCGCGCGCGGTGCTGTGCGGAGCAACCGG 482
Qy 613 CCAGGCTACGCTCTGCTTACACCGCGCAGCGCAAGCTGCAGGCGCAGAGCCCTTAC 671
Db 483 CGCTTTCATGCTGACCTACGACCGCGCGGCAAGCTGCAACGGCGGCGCGCGTTC 541
```

RESULT 8

US-09-840-479-14

: Sequence 14, Application: US/09840479

: Patent No. US20010025380A1

: GENERAL INFORMATION:

: APPLICANT: Crane, Virginia

: TITLE OF INVENTION: Family Of Maize p8-1 Genes And Promoters

: FILE REFERENCE: 5718-32, 035718/175219

: CURRENT APPLICATION NUMBER: US/09/840,479

: CURRENT FILING DATE: 2001-04-23

: PRIOR APPLICATION NUMBER: 09/257,583

: PRIOR FILING DATE: 1999-02-25

: NUMBER OF SEQ ID NOS: 37

: SOFTWARE: PatentIn Ver. 2.0

: SEQ ID NO 14

: LENGTH: 806

: TYPE: DNA

: ORGANISM: Zea mays

: FEATURE:

: NAME/KEY: CDS

: LOCATION: (42)...(686)

: NAME/KEY: unsure

: LOCATION: (775)

: OTHER INFORMATION: The nucleotide at this position may be a or g or t

: OTHER INFORMATION: or c.

US-09-840-479-14

```
Query Match 13.6%; Score 121.8; DB 9; Length 806.
Best Local Similarity 50.6%; Pred. No. 1.9e-17;
Matches 254; Conservative 0; Mismatches 157; Indels 8; Gaps 3;
```

```
Qy 258 ACGCGGACGAGTACCTGGCGCGCCACAAACAGCGCGCGCGGTGGGTGGCGCCG 317
Db 141 ACGCGCAGGACTTCGTGAATCTGCACANCCGCGCGCGCGCGGAGCGGTGGCGCCG 200
Qy 318 CTGGCGGTGAACGGCGGGCTTGGCTTCGGCGCGCGCGGAGCGGTGGCGCAGCGCGG 377
Db 201 GTGGCGTGGAGCGCAGGTGGCCAGGTACCGGCGAGGACTACCGCGCGCAACGGCGCGG 260
Qy 378 CAGGCGGTGGCGGCTTCGGGAGCTGGGGCGCCAGCCCTACGCGCGCAACAGAGGTGG 437
Db 261 GACTGCGCGGCTGGTGCATTCGGGC---GGGCGGTTCGCGGAGAGCACTTCCTGGGGCTCG 317
Qy 438 CCGAGCTACCGCGCGCGCGCGCGAGGTGTGGCGGTGTGGGTGGCGGAGGCGGTAC 497
```

```
Db 318 GCGGGCGCGCGCTGGAGCGCGCGGAGCGCGCTCGGTCGTGGGTGGAGAGAGGAAC 377
Qy 498 TACCCACACGCCAACACACGCTGGCGCGCGCGGCGCGAGTGGGCACTGACAGCGAGGTG 557
Db 378 TACACCTGAGCAGCAACACCTGGGAGCCCGCGCAAGGTGTCGGGCACTACAGCGAGGTG 437
Qy 558 GTGTGGGGCA--ACACGGCGGAGTGGGTGGCGCGAGGCCAGCTGGC---CACGGGCG 612
Db 438 GTGTGGCGGAGGTGCGACCGCGATCGGCTGGCGCGCGGTGCTGTGGCGCAACACCGG 497
Qy 613 CCAGGCTACGCTCTGCCTG:ACAACCGCGACCGCAACGTGAGGCGCAAGAGCCCTTAC 671
Db 498 GCGTCTTCATGCTGTGCACTACGACCGCGCGGCAACGTCAACGGCGCAGCGCGCGTTC 556
```

RESULT 9

US-10-068-347-3

: Sequence 3, Application: US/10068347

: Publication No. US20020166146A1

: GENERAL INFORMATION:

: APPLICANT: Pioneer Hi-Bred International, Inc.

: APPLICANT: Simmons, Carl

: APPLICANT: Acevedo, Pedro

: TITLE OF INVENTION: Maize P1: Polynucleotides And Methods of Use

: FILE REFERENCE: 5718/242798 (5718-151)

: CURRENT APPLICATION NUMBER: US/10/068,347

: CURRENT FILING DATE: 2002-02-06

: PRIOR APPLICATION NUMBER: 60/267,052

: PRIOR FILING DATE: 2001-02-07

: NUMBER OF SEQ ID NOS: 12

: SOFTWARE: PatentIn version 3.0

: SEQ ID NO 3

: LENGTH: 772

: TYPE: DNA

: ORGANISM: Zea mays

: FEATURE:

: NAME/KEY: CDS

: LOCATION: (56)...(571)

US-10-068-347-3

```
Query Match 13.2%; Score 118.8; DB 13; Length 772.
Best Local Similarity 59.7%; Pred. No. 8.5e-17;
Matches 258; Conservative 0; Mismatches 162; Indels 12; Gaps 3;
```

```
Qy 258 ACGCGGACGAGTACCTGGCGCGCCACAAACAGCGCGCGGTGGGTGGCGCCG 317
Db 149 ACGCGCAGGACTTCGTGAACCTGCACACTCCCGCGCGGAGCGISGCGCTCGGGAAC 208
Qy 318 CTGGGTGGAACCGCGGCTGCGTTGGGAGCGGAGAGCTGGGCGAGAGCGGCGG 377
Db 209 GTGCGCTGGAAACACCAAGTGG---CGGCTACGCGGAGAGCTACGCGAACCAGCGCGG 245
Qy 378 CAGGCGGCTGGCGGTTCGGCGAGTGGGCGCGAGCGGCTACGCGAGAGAGGAGG 437
Db 266 GGGGACTGCGCGGTGGTGGACATCGGCGGCGGCTACGGGAGAGACTGTGTTCTGGGGCTCG 325
Qy 438 GCGAGCTACCGCGCGCGCGCGCGGAGGTGGTGGCGGTGGTGGCGAGCGCGGTAC 497
Db 326 GCGGGCTACCGCTGGACCGGCTGCAAGCGGCTGGATCGCTGGGCGGAGAGAGCACTAC 395
Qy 498 TACACCCACGCCAACAAACAGCTGGCGG-----CGGGCGGCGAGTGGGCACTACAG 551
Db 386 TACAACACGCCAACCAACACTGCTCGGCTCGGCTCGGCGAGTGGTGGCGGCACTACAG 445
Qy 552 CAGGTGCTGGCGCACACCGCGGAGGTGGGTGGCGG---AGGCGAGCTGGCGGACG 606
Db 446 CAGCTGCTGGCGCGGCTCCACTGGCATCGGATGGCGCGCGGCTGCTCTGCAACAAC 505
Qy 609 GGGCGCACGCTCAGCTCTCCCTGTACACCGCGCAGGCAACGTGCAGGCGCAGAGCCCG 668
Db 506 GCGGCGCTCTCATCTCACTATTACCGCGCGGCAACGCTGATTGACAGAGCCCT 565
```


Db 141 GGTGGGCGGCTGAGCTGGGACCCCAAGGTGCGGAGCTGCGGAGAGCTAGCTAGCGGCCAA 200
Qy 368 GCAGCGGCGGAGGGGTGGGGTTCGGAGCTGGGGGGCCACCCCTACGGGCGGCAA 427
Db 201 GCGCGCGCGGAGTGGCGGCTGCAGCACCTCCGGCGGGCGGTACGGCGAGAACATCT--- 257
Qy 428 CCAGGGGTGGGGAGTACTGCGCGCGCCCGCGGAGGTGGTGGCTGTGGTGGCGGA 487
Db 258 CTGGGCTCGGGGGCGGCTTGAGGCCCGCGGAGCTGGCGTGTGGTGGGGCA 317
Qy 488 GGGGCGGTACTACCCAGCCCAACACAGTGCGCCGGGGCGGAGTGGCGGACGTA 547
Db 318 GAAGAAGAATACCACTACCAACCAACACAGTGCAGCCCGGCAAGGTGTGGCGCACTA 377
Qy 548 CAGCGAGGTGGTGGCGCAACACCCCGAGTTCGGGTTCGGCGGAGGCGGAGTGGCGCAC 607
Db 378 CACCCAGGTGGTGGCGGAAGTGGTGGCGCATCGGCTGCGCGCGGTGGTGGCGGCG 437
Qy 608 G---GGCGCACGCTCACGCTGTGCTGTACAACTGGCAGCGCAACGTGCAGGGCCAG 664
Db 438 GAACCGGGCGGTTCTACCTGCACTACGACCCCGCGGCACTTCAGCGCGAGCG 497
Qy 665 CCCTAC 671
Db 498 CCGGTC 504

RESULT 14
US-10-259-165-23
; Sequence 23, Application US/10259165
; Publication No. US20030135888A1
; GENERAL INFORMATION:
; APPLICANT: Zhu, Tong
; APPLICANT: Wang, Xun
; APPLICANT: Chang, Hur-song
; APPLICANT: Briggs, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Fumiyaki
; APPLICANT: Kreps, Joel
; APPLICANT: Moughamer, Todd
; APPLICANT: Provart, Nicholas
; APPLICANT: Rickel, Darrell
; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
; FILE REFERENCE: 70030-NP
; CURRENT APPLICATION NUMBER: US/10/259,165
; CURRENT FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/368,327
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta
; SEQ ID NO 23
; LENGTH: 498
; TYPE: DNA
; ORGANISM: Oryza sativa
US-10-259-165-23

Query Match 12.2% Score 110; DB 12; Length 498;
Best Local Similarity 58.6% Pred. No. 6.6e-15;
Matches 251; Conservative 0; Mismatches 165; Indels 12; Gaps 3;
Qy 259 CGCGGAGAGTACCTGGCGCGCACAAACAGCGCGCGGCGGTGGCGGTGGCGCGCG 318
Db 71 CGCGGAGAGTACGTGGGACGCGCACAAACAGCGCGGAGTCCGACGTTCGGGTGGCGCG 130
Qy 319 TCGGGTGAACGGCGGCTTGGTTCGGCGCGCGGGGAGCGTGGCGAGCGCGCGGCG 378
Db 131 TGAGCTGGGACGACAGCGGTGGCGGCTACGCGGAGAGCTACGCGGCGGCGAGCGGCG 190

Qy 379 AGGCGGGTGGCGGTTCGGGAGCTGGGGCCAGCCCTACGGCGGCAACACCGGGTGG 438
Db 191 ACTCGCGCTGGAGCACTCGGACTCGCGCGGCGGAAGTACGGCGGAGAACATCTTCGGCGCT 250
Qy 439 CGAGCTACCGCGCGCGCGCGCGAG---GTGGTGGGCTGTGGGTGGGGAGGGCGGT 495
Db 251 CGCGCGGGGAGTGGAGCGCGGAGCGCGGTGTCTGCTGGTGGTGGGGAAGCACT 310
Qy 496 ACTACCCACCGCCAAACACACGTC-----GCCGCGGGGGCGGAGTGGCGCACATACA 549
Db 311 GGTACGACCAACAGCAGCAACAGCTGCTCGCGCGCGCGGAGCTGTGCGGCGCACTACA 370
Qy 550 CGCAGGTGGTGGCGCAACACCGCGAGTTCGGGTTCGGCGGAGGCGCACTGGCGCACGG 609
Db 371 CGCAGGTGGTGGGAGCAACTCGACGCGATCGGCTGCGCCCGCGTCTGCGGACAACA 430
Qy 610 G---CGCGACGCTCACGCTGTGCTGACAAACCGCGGAGCGCAACGTGCAGGGCGAGAGCG 666
Db 431 GCCTCGCGGTCTTCATCACCCTGCACTACTCGCGCGCGGCGCAACGTTCGAGCGGCACTTC 490
Qy 667 CCTACTAG 674
Db 491 CCTACTAG 498

RESULT 15
US-10-259-165-177
; Sequence 177, Application US/10259165
; Publication No. US20030135888A1
; GENERAL INFORMATION:
; APPLICANT: Zhu, Tong
; APPLICANT: Wang, Xun
; APPLICANT: Chang, Hur-song
; APPLICANT: Briggs, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Fumiyaki
; APPLICANT: Kreps, Joel
; APPLICANT: Moughamer, Todd
; APPLICANT: Provart, Nicholas
; APPLICANT: Rickel, Darrell
; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
; FILE REFERENCE: 70030-NP
; CURRENT APPLICATION NUMBER: US/10/259,165
; CURRENT FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/368,327
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta
; SEQ ID NO 177
; LENGTH: 498
; TYPE: DNA
; ORGANISM: Oryza sativa
US-10-259-165-177

Query Match 12.2% Score 110; DB 12; Length 498;
Best Local Similarity 58.6% Pred. No. 6.6e-15;
Matches 251; Conservative 0; Mismatches 165; Indels 12; Gaps 3;
Qy 259 CGCGGAGAGTACCTGGCGCGCACAAACAGCGCGCGGCGGTGGCGGTGGCGCGCG 318
Db 71 CGCGGAGAGTACGTGGGACGCGCACAAACAGCGCGGAGTCCGACGTTCGGGTGGCGCG 130
Qy 319 TCGGGTGAACGGCGGCTTGGTTCGGCGCGCGGGGAGCGTGGCGAGCGCGCGGCG 378
Db 131 TGAGCTGGGACGACAGCGGTGGCGGCTACGCGGAGAGCTACGCGGCGGCGAGCGGCG 190

```

QY 379 AGGGCGGTTGCGGAGTGGGGCCAGCCCTACGGCCGGACACAGGGGTGGG 439
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | |
191 ACTGCGCGTGGAGCACTCGGACTCGGCGGGAACTACGGGAGAACATCTCTGGGGCT 250
QY 439 CGAGCTACCGCGCGCCCGCGGAG---GTGGTGGCGGTGTGGTGGGAGGGCGGGT 495
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | |
251 CCUCCGGCGGGACTGGAGCGGGGAGCGCGTGTCTGTGGGTGGGAGAGAGCAGT 310
QY 496 ACTACACCCACGCCAACACAGCTGC-----GCCCGGGGGGAGTGGCGCAGGTACA 549
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | |
311 GGTACGACCAAGACACCAACAGCTGCTCGGCGCGGGGAGCTGCTGGGGCACTACA 370
QY 550 CGCAGTGTGTGGCGCAACACCGCGAGGTGGGTGCGCGGAGCCAGCTCGCGCACGG 609
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | |
371 CGCAGTGTGTGGAGCAACTCGACGGGATCGGCTCGCGCGGCTGCTCGGACAACA 430
QY 610 G---CGCCACGGCTCAGGCTCTGCTGTACACCGCGCACCGCAACGTGCAGGCCAGAGCC 666
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | |
431 GCCTCGGCGTCTTCACCTGGCACTACTCGCGCGCGGCAACGTGCAGCGGATCTC 490
QY 667 CCTACTAG 674
Db | | | | | | |
491 CCTACTAG 498

```

Search completed: October 17, 2003, 14:12:19
Job time : 228.066 secs

GenCore version 5.1.6
 Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 17, 2003, 14:05:52 : Search time 50 Seconds
 (without alignments)
 565,503 Million cell updates/sec

Title: US-09-832-320-2
 Perfect score: 1085
 Sequence: 1 MAHRSRHHLLLLPAPMATA.....ATJCLYNHGVGQSPY 203

Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5

Searched: 609560 seqs, 16397102 residues 609560

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Published Applications_AA:*

1: /cgn2.6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
 2: /cgn2.6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
 3: /cgn2.6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
 4: /cgn2.6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
 5: /cgn2.6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
 6: /cgn2.6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
 7: /cgn2.6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
 8: /cgn2.6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
 9: /cgn2.6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
 10: /cgn2.6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
 11: /cgn2.6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
 12: /cgn2.6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
 13: /cgn2.6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
 14: /cgn2.6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
 15: /cgn2.6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
 16: /cgn2.6/ptodata/1/pubpaa/US10C_NEW_PUB.pep.*
 17: /cgn2.6/ptodata/1/pubpaa/US10C_NEW_PUB.pep.*
 18: /cgn2.6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1085	100.0	203	9	US-09-832-320-2
2	331	30.5	163	9	US-09-840-479-13
3	331	30.5	163	14	US-10-078-929-202
4	304	28.0	165	12	US-10-259-165-24
5	304	28.0	165	12	US-10-259-165-178
6	304	28.0	165	12	US-10-259-165-446
7	301.5	27.8	175	12	US-10-259-165-204
8	300.5	27.7	171	14	US-10-068-347-4
9	287	26.5	164	12	US-10-078-929-82
10	287	26.5	176	12	US-10-259-165-86
11	287	26.5	176	12	US-10-259-165-346
12	287	26.5	176	14	US-10-078-929-86
13	287	26.5	280	12	US-10-259-163-174
14	280.5	25.9	167	14	US-10-078-929-100
15	267	24.6	136	15	US-10-091-135-83

16	259.5	23.9	164	14	US-10-078-929-84	Sequence 84, Appl
17	255	23.5	161	14	US-10-078-929-96	Sequence 96, Appl
18	254	23.4	190	14	US-10-078-929-90	Sequence 90, Appl
19	248	22.9	139	14	US-10-078-929-94	Sequence 94, Appl
20	246	22.7	176	12	US-10-342-224-84	Sequence 84, Appl
21	240	22.1	156	9	US-09-840-479-7	Sequence 7, Appl
22	240	22.1	156	14	US-10-078-929-98	Sequence 98, Appl
23	231	21.3	166	14	US-10-068-347-2	Sequence 2, Appl
24	223.5	20.6	94	14	US-10-068-347-10	Sequence 10, Appl
25	217.5	20.0	214	9	US-09-840-479-15	Sequence 15, Appl
26	199	18.3	112	14	US-10-078-929-88	Sequence 88, Appl
27	197	18.2	140	14	US-10-078-929-92	Sequence 92, Appl
28	193.5	17.8	455	9	US-09-866-028-50	Sequence 50, Appl
29	193.5	17.8	455	10	US-09-944-449-50	Sequence 50, Appl
30	193.5	17.8	455	10	US-09-944-457-50	Sequence 50, Appl
31	193.5	17.8	455	10	US-09-944-862-50	Sequence 50, Appl
32	193.5	17.8	455	10	US-09-945-587-50	Sequence 50, Appl
33	193.5	17.8	455	10	US-09-945-015-50	Sequence 50, Appl
34	193.5	17.8	455	10	US-09-944-786-50	Sequence 50, Appl
35	193.5	17.8	455	10	US-09-944-097-50	Sequence 50, Appl
36	193.5	17.8	455	10	US-09-944-432-50	Sequence 50, Appl
37	193.5	17.8	455	10	US-09-943-762-50	Sequence 50, Appl
38	193.5	17.8	455	10	US-09-944-654-50	Sequence 50, Appl
39	193.5	17.8	455	10	US-09-943-851A-50	Sequence 50, Appl
40	193.5	17.8	455	10	US-09-944-413-50	Sequence 50, Appl
41	193.5	17.8	455	10	US-09-944-403-50	Sequence 50, Appl
42	193.5	17.8	455	10	US-09-944-896-50	Sequence 50, Appl
43	193.5	17.8	455	10	US-09-944-944-50	Sequence 50, Appl
44	193.5	17.8	455	10	US-09-944-929-50	Sequence 50, Appl
45	193.5	17.8	455	10	US-09-944-907-50	Sequence 50, Appl

ALIGNMENTS

US-09-832-320-2

Sequence 2, Application US/09832320
 Patent No. US20010049834A1
 GENERAL INFORMATION:
 APPLICANT: Crane, Edmund H.
 TITLE OF INVENTION: Maize Pathogenesis-Related
 TITLE OF INVENTION: Polynucleotide and Methods of Use
 FILE REFERENCE: 3518/214291
 CURRENT APPLICATION NUMBER: US/09/832.320
 CURRENT FILING DATE: 2001-04-10
 PRIOR APPLICATION NUMBER: US 60/195,801
 PRIOR FILING DATE: 2000-04-10
 NUMBER OF SEQ ID NOS: 3
 SOFTWARE: FASTSEQ for Windows Version 4.0
 SEQ ID NO 2
 TYPE: PRT
 ORGANISM: Zea mays
 US-09-832-320-2

Query Match	100.0%	Score	1085	DB	9	Length	203
Best Local Similarity	100.0%	Pred. No.	2.66-92				
Matches	203	Conservative	0	Mismatches	0	Indels	0
Gaps	0						
QY	1	MAHRSRHHLLLLPAPMATA	ACILLATLALCAAFAPTHGAKVLMPPGGAGATKAQGGTG	60			
DB	1	MAHRSRHHLLLLPAPMATA	ACILLATLALCAAFAPTHGAKVLMPPGGAGATKAQGGTG	60			
QY	51	SGSNATDEYLAPHNOARAAVGVFLRWNAGLSAAAGTVAQRRQGGCAADVWASPYG	120				
DB	61	SGSNATDEYLAPHNOARAAVGVFLRWNAGLSAAAGTVAQRRQGGCAADVWASPYG	120				
QY	121	ANQGHASVRRAPAEVVALWVAEGRYTHANTTCAGRCGGTYTGVVWENTAEVCAQASC	180				
DB	121	ANQGHASVRRAPAEVVALWVAEGRYTHANTTCAGRCGGTYTGVVWENTAEVCAQASC	180				

QY 181 ATGATLTTCCTCCTNPHGNVCGOSPY 203
|||||:|||||:|||||:|||||:
Db 181 ATGATLTTCCTCCTNPHGNVCGOSPY 203

RESULT 2

US-09-840-479-13
; Sequence 13, Application US/0964479
; Patent No. US20010025380A1
; GENERAL INFORMATION:
; APPLICANT: Crane, Virginia
; TITLE OF INVENTION: Family of Maize PR-1 Genes and Promoters
; FILE REFERENCE: 5718-32, 035718/175219
; CURRENT APPLICATION NUMBER: US/09/840,479
; CURRENT FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: 09/257,583
; PRIOR FILING DATE: 1999-02-25
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 163
; TYPE: PRT
; ORGANISM: Zea mays
US-09-840-479-13

Query Match 30.5%; Score 331; DB 9; Length 163;
Best Local Similarity 39.0%; Pred. No. 6,4e-23;
Matches 73; Conservative 21; Mismatches 61; Indels 32; Gaps 6;

QY 20 ACILLATLALCAAPATHGAVLMFGAGAVTKAQQGCTGSGSNATADEYLAPHNOARA 79
|||||:|||||:|||||:|||||:
Db 6 ACLIALAMAAIVVAPC-----TAQNSPQD-YVDPHNAARA 39

QY 80 AVGVAPLRNAGLASAAAGTVAQORRQCCAFADVGASPYCANOGWASYRA--RPAEYVA 137
|||||:|||||:|||||:|||||:
Db 40 DVGVPVSWDDTVAAYACSYAAO--RQDCQLIHSG-GPYGENLFWGSAGADWSASDAVG 36

QY 138 LWAEGRYTHANTCAAGRCGGTYTQVVMNRNTAEVGCQAQASCATGA-TLTCLYNPHGN 196
|||||:|||||:|||||:|||||:
Db 97 SWSEKQYDHDINSKARCGOVCGHYTQVVRDSTAIGCARVVCDDNAGVFIICSYNPPGN 156

QY 197 VOGOSPY 203
|:|||||
Db 157 VVGESPY 163

RESULT 3

US-10-078-929-202
; Sequence 202, Application US/10078929
; Publication No. US2002052497A2
; GENERAL INFORMATION:
; APPLICANT: Rafalski, Antoni
; APPLICANT: Miao, Guo-Hua
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Sakai, Hajime
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Cdell, Joan I.
; APPLICANT: Meyers, Blake
; APPLICANT: Thorpe, Catherine
; APPLICANT: Wenq, Zude
; TITLE OF INVENTION: Nucleic Acid Fragments Encoding Proteins Involved in
; FILE REFERENCE: RB1357 US NA
; CURRENT APPLICATION NUMBER: US/10/078,929
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: 09/566,394
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/133038
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133042
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133427
; PRIOR FILING DATE: 1999-05-11

; PRIOR APPLICATION NUMBER: 60/133437
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133426
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133456
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133436
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/137667
; PRIOR FILING DATE: 1999-06-34
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 202
; LENGTH: 163
; TYPE: PRT
; ORGANISM: Zea mays
US-10-078-929-202

Query Match 30.5%; Score 331; DB 14; Length 163;
Best Local Similarity 39.0%; Pred. No. 6,4e-23;
Matches 73; Conservative 21; Mismatches 61; Indels 32; Gaps 6;

QY 20 ACILLATLALCAAPATHGAVLMFGAGAVTKAQQGCTGSGSNATADEYLAPHNOARA 79
|||||:|||||:|||||:|||||:
Db 6 ACLIALAMAAIVVAPC-----TAQNSPQD-YVDPHNAARA 39

QY 80 AVGVAPLRNAGLASAAAGTVAQORRQCCAFADVGASPYCANOGWASYRA--RPAEYVA 137
|||||:|||||:|||||:|||||:
Db 40 DVGVPVSWDDTVAAYACSYAAO--RQDCQLIHSG-GPYGENLFWGSAGADWSASDAVG 96

QY 138 LWAEGRYTHANTCAAGRCGGTYTQVVMNRNTAEVGCQAQASCATGA-TLTCLYNPHGN 196
|||||:|||||:|||||:|||||:
Db 97 SWSEKQYDHDINSKARCGOVCGHYTQVVRDSTAIGCARVVCDDNAGVFIICSYNPPGN 156

QY 197 VOGOSPY 203
|:|||||
Db 157 VVGESPY 163

RESULT 4

US-10-259-165-24
; Sequence 24, Application US/10259165
; Publication No. US20030135888A1
; GENERAL INFORMATION:
; APPLICANT: Zhu, Tong
; APPLICANT: Wang, Xun
; APPLICANT: Chang, Hur-song
; APPLICANT: Briggs, Steven F.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Fumiyaki
; APPLICANT: Kreps, Joel
; APPLICANT: Moughamer, Todd
; APPLICANT: Provart, Nicholas
; APPLICANT: Rieke, Darrell
; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
; FILE REFERENCE: 70030-NP
; CURRENT APPLICATION NUMBER: US/10/259,165
; CURRENT FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/368,327
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: Patentlist.pl version 3.0.4 (C) 2001 Syngenta
; SEQ ID NO 24
; LENGTH: 165
; TYPE: PRT
; ORGANISM: Oryza sativa
US-10-259-165-24

RESULT 10

US-10-259-165-86
; Sequence 86, Application US/10259165
; Publication No. US20030135888A1
; GENERAL INFORMATION:
; APPLICANT: Zhu, Tong
; APPLICANT: Wang, Xun
; APPLICANT: Chang, Hur-song
; APPLICANT: Briggs, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Fumiaki
; APPLICANT: Kreps, Joel
; APPLICANT: Moughamer, Todd
; APPLICANT: Provart, Nicholas
; APPLICANT: Ricke, Darrell
; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
; CURRENT APPLICATION NUMBER: US/10/259,165
; CURRENT FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/368,327
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta
; SEQ ID NO 86
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Oryza sativa
US-10-259-165-86

Query Match 26.5%; Score 287; DB 12; Length 176;
Best Local Similarity 40.0%; Pred. No. 7,9e-19;
Matches 70; Conservative 22; Mismatches 71; Indels 12; Gaps 7;

QY 33 APATHGARVLMPPGAGAVTKAQQGGTSGSNATADGYLAPHNOARAAVGLRWNAAGL 92
DB 2 APSKVSLLAAVL----AVALSIAAAATTTTSAONTPOGYVNLHNSARRADGVPVSWDPKV 57

QY 93 ASAAAGTVAQORROGCGACAFADVGASPYGANOGWASY-RA-RPAEVVALWVAEGRYIYHAN 150
DB 58 ASFAQSYAA--KRAQUCRLQHSQ-GPYGENIFWGSAGRAWSAADAVASWVGKKNYHYDT 114

QY 151 NTCAAGROCCGTYTQVWVWNTAEVGCQAQASCAT--GATLTCLYNPHGNVQOSPY 203
DB 115 NICDPKGVCGHYTQVWVRKSRIGCARVCAANRGVET-CNYDPPGNFNGSERPF 168

RESULT 11

US-10-259-165-346
; Sequence 346, Application US/10259165
; Publication No. US20030135888A1
; GENERAL INFORMATION:
; APPLICANT: Zhu, Tong
; APPLICANT: Wang, Xun
; APPLICANT: Chang, Hur-song
; APPLICANT: Briggs, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Fumiaki
; APPLICANT: Kreps, Joel
; APPLICANT: Moughamer, Todd
; APPLICANT: Provart, Nicholas
; APPLICANT: Ricke, Darrell
; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
; FILE REFERENCE: 70030-NP
; CURRENT APPLICATION NUMBER: US/10/259,165
; CURRENT FILING DATE: 2002-09-26

; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/368,327
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta
; SEQ ID NO 346
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Oryza sativa
US-10-259-165-346

Query Match 26.5%; Score 287; DB 12; Length 176;
Best Local Similarity 40.0%; Pred. No. 7,9e-19;
Matches 70; Conservative 22; Mismatches 71; Indels 12; Gaps 7;

QY 33 APATHGARVLMPPGAGAVTKAQQGGTSGSNATADGYLAPHNOARAAVGLRWNAAGL 92
DB 2 APSKVSLLAAVL----AVALSIAAAATTTTSAONTPOGYVNLHNSARRADGVPVSWDPKV 57

QY 93 ASAAAGTVAQORROGCGACAFADVGASPYGANOGWASY-RA-RPAEVVALWVAEGRYIYHAN 150
DB 58 ASFAQSYAA--KRAQUCRLQHSQ-GPYGENIFWGSAGRAWSAADAVASWVGKKNYHYDT 114

QY 151 NTCAAGROCCGTYTQVWVWNTAEVGCQAQASCAT--GATLTCLYNPHGNVQOSPY 203
DB 115 NICDPKGVCGHYTQVWVRKSRIGCARVCAANRGVET-CNYDPPGNFNGSERPF 168

RESULT 12
US-10-078-929-86
; Sequence 86, Application US/10078929
; Publication No. US20020152497A1
; GENERAL INFORMATION:
; APPLICANT: Rafalski, Antoni
; APPLICANT: Miao, Guo-Hua
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Sakai, Hajime
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Odell, Joan T.
; APPLICANT: Meyers, Blake
; APPLICANT: Thorpe, Catherine
; APPLICANT: Weng, Zude
; TITLE OF INVENTION: Nucleic Acid Fragments Encoding Proteins Involved in
; FILE REFERENCE: B01357 US NA
; CURRENT APPLICATION NUMBER: US/10/078,929
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: 09/566,494
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/133038
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133042
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133427
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133437
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133428
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133438
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133436
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/137667
; PRIOR FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 86
; LENGTH: 176
; TYPE: PRT

; TITLE OF INVENTION: ALLERGENICITY THAT RETAIN IMMUNOGENICITY OF THE NATURAL ALLERGEN
; FILE REFERENCE: 2313/1H587-US1
; CURRENT APPLICATION NUMBER: US/10/091.135
; CURRENT FILING DATE: 2002-03-04
; PRIOR APPLICATION NUMBER: US 60/272,818
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 83
; LENGTH: 136
; TYPE: PRT
; ORGANISM: Lycopersicon esculentum
; US-10-091-135-83

Query Match 24.6% Score 267; DB 15; Length 136;
Best Local Similarity 44.2%; Pred. No. 4.le-17;
Matches 61; Conservative 13; Mismatches 54; Indels 10; Gaps 5;

Qy	69	EYLAHQARAAVGVAPLRNACIASAAACTVAQRRQGGCAFADVGCSPYGAN--QSWA	126
Db	6	DYLAVIDARAAOVGVGPMSCANLASRAONYA--NSRAGUCNIHSGA---GKSLAKGGG	60
Qy	127	SYRARPAAVVALWVAGRYVTHANNTCAAGRCGGIYTVQVWNTAEVGCDAASC-ATGAT	185
Db	61	LTGTRAA--VOLWSEHPSPNYATNOCVGGKGRHTQVWRNSVRGGGRARCNNNGRW	118
Qy	186	LTCLYNPHGNVQGSFY	203
Db	119	FISCNYPGVGNWIGRPY	136

Search completed: October 17, 2003, 14:19:36
Job time : 50 secs


```

1  CITY: Zurich
2  STATE: none
3  COUNTRY: Switzerland
4  ZIP: (note: this is an international post code) CH-8092
5  COMPUTER READABLE FORM:
6  MEDIUM TYPE: 3.5 inch diskette, 1.4 Mb storage
7  OPERATING SYSTEM: Macintosh 7.0
8  SOFTWARE: Microsoft Word
9  CURRENT APPLICATION DATA:
10 APPLICATION NUMBER: US/07/857,224B
11 FILING DATE: 03/25/92
12 CLASSIFICATION: 436
13 PRIOR APPLICATION DATA: none
14 TELECOMMUNICATION INFORMATION:
15 TELEPHONE: (international) 41 1 692 2830
16 TELEFAX: (international) 41 1 262 2437
17 TELEX: none
18 INFORMATION FOR SEQ ID NO: 102:
19 SEQUENCE CHARACTERISTICS:
20 LENGTH: 139
21 TYPE: amino acid
22 TOPOLOGY: linear
23 MOLECULE TYPE:
24 DESCRIPTION: protein
25 ORIGINAL SOURCE:
26 ORGANISM: tobacco
27 FEATURE: Pathogenesis related protein; Table 16 Row 6
28 PUBLICATION INFORMATION:
29 AUTHORS:
30 AUTHORS: Cutt, J. R.
31 AUTHORS: Dixon, D. C.
32 AUTHORS: Carr, J. P.
33 AUTHORS: Klessig, D. F.
34 TITLE: Isolation and nucleotide sequence of cDNA clones for the
35 TITLE: Pathogenesis related proteins of Nicotiana tabacum induced by TMV
36 TITLE: Infection.
37 JOURNAL: Nucleic Acids Research
38 VOLUME: 16
39 PAGES: 9861
40 DATE: 1988
41 US-07-857-224B-102
42
43 Query Match 27.98; Score 303; DB 2; Length 139;
44 Rest Local Similarity 46.18; Pred. No. 4.4e-24;
45 Matches 65; Conservative 15; Mismatches 47; Indels 14; Gaps 4;
46
47 QY 65 EYLAPHNOARAAGVAPLRNAGLSAAGTVAQRRGGCAFAVGA---SPYGAN-- 122
48 DB 7 DYLDHNTARADGVLEPLTDWNGVAAYAYNSQ-----LAACNLVHSHGQYGENLA 59
49 QY 123 QGMASYRARPRAEVVALKVAAGRYTTHANTCAAGRCGGTYCTGVVNRNTAEVSCAASCAT 182
50 DB 63 QCSGDFMT-AKAVEMVYDEKVDHDSNTCAQGGYCGHYCTGVVNRNSVRVGCARVKCN 119
51 QY 183 CATITLCILYNPHGNVQGSPPY 203
52 DB 119 GGVVSCNIDPPGNVICQSPY 139
53
54 RESULT 3
55 US-07-857-224B-104
56 Sequence 104, Application US/07857224B
57 Patent No. 5958784
58 GENERAL INFORMATION:
59 APPLICANT: Benner, Steven A.
60 TITLE OF INVENTION: Predicting Folded Structures of Proteins
61 NUMBER OF SEQUENCES: 114
62 CORRESPONDENCE ADDRESS:
63 ADDRESSEE: Steven A. Benner
64 STREET: Hadlaubstrasse 151
65 CITY: Zurich
66 STATE: none
67 COUNTRY: Switzerland
68 ZIP: (note: this is an international post code) CH-8092
69
70 CITY: Zurich
71 STATE: none
72 COUNTRY: Switzerland
73 ZIP: (note: this is an international post code) CH-8092
74 COMPUTER READABLE FORM:
75 MEDIUM TYPE: 3.5 inch diskette, 1.4 Mb storage
76 OPERATING SYSTEM: Macintosh 7.0
77 SOFTWARE: Microsoft Word
78 CURRENT APPLICATION DATA:
79 APPLICATION NUMBER: US/07/857,224B
80 FILING DATE: 03/25/92
81 CLASSIFICATION: 436
82 PRIOR APPLICATION DATA: none
83 TELECOMMUNICATION INFORMATION:
84 TELEPHONE: (international) 41 1 692 2830
85 TELEFAX: (international) 41 1 262 2437
86 TELEX: none
87 INFORMATION FOR SEQ ID NO: 104:
88 SEQUENCE CHARACTERISTICS:
89 LENGTH: 141
90 TYPE: amino acid
91 TOPOLOGY: linear
92 MOLECULE TYPE:
93 DESCRIPTION: protein
94 ORIGINAL SOURCE:
95 ORGANISM: maize
96 FEATURE: Pathogenesis related protein; Table 16 Row 8
97 PUBLICATION INFORMATION:
98 AUTHORS:
99 AUTHORS: Cutt, J. R.
100 AUTHORS: Dixon, D. C.
101 AUTHORS: Carr, J. P.
102 AUTHORS: Klessig, D. F.
103 TITLE: Isolation and nucleotide sequence of cDNA clones for the
104 TITLE: Pathogenesis related proteins of Nicotiana tabacum induced by TMV
105 TITLE: Infection.
106 JOURNAL: Nucleic Acids Research
107 VOLUME: 16
108 PAGES: 9861
109 DATE: 1988
110 US-07-857-224B-104
111
112 Query Match 27.6%; Score 295; DB 2; Length 141;
113 Rest Local Similarity 42.4%; Pred. No. 1.2e-23;
114 Matches 61; Conservative 16; Mismatches 61; Indels 6; Gaps 4;
115
116 QY 53 SNATADBYLAPHNOARAAGVAPLRNAGLSAAGTVAQRRGGCAFAVGAASPYCAN 122
117 DB 1 SENSPOQYLYTPONSARAAGVGPVTWSTKLQOPAEKYAAQ--RAGDPCRLHSG-GPYGEN 57
118 QY 123 QGM--ASYRAPPRAEVVALKVAAGRYTTHANNITCAAGRCGGTYCTGVVNRNTAEVSCAASC 180
119 DB 58 IFWSAGFDKRAVDKAVRSWYDEKQWNTYNATNSCAKGVCGHYTQVWNRATISGCAKVC 117
120 QY 181 ATG-ATITLCILYNPHGNVQGSPPY 203
121 DB 118 RDNKGVFIICNIEPRGNIAQMKPY 141
122
123 RESULT 4
124 US-07-857-224B-100
125 Sequence 100, Application US/07857224B
126 Patent No. 5958784
127 GENERAL INFORMATION:
128 APPLICANT: Benner, Steven A.
129 TITLE OF INVENTION: Predicting Folded Structures of Proteins
130 NUMBER OF SEQUENCES: 114
131 CORRESPONDENCE ADDRESS:
132 ADDRESSEE: Steven A. Benner
133 STREET: Hadlaubstrasse 151
134 CITY: Zurich
135 STATE: none
136 COUNTRY: Switzerland
137 ZIP: (note: this is an international post code) CH-8092

```

```
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch diskette, 1.4 Mb storage
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh 7.0
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/857,224B
FILING DATE: 03/25/92
CLASSIFICATION: 436
PRIOR APPLICATION DATA: none
TELECOMMUNICATION INFORMATION:
TELEPHONE: (International) 41 1 632 2830
TELEFAX: (International) 41 1 262 2437
TELEX: none
INFORMATION FOR SEQ ID NO: 100:
SEQUENCE CHARACTERISTICS:
LENGTH: 138
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE:
DESCRIPTION: protein
ORIGINAL SOURCE:
ORGANISM: tobacco
FEATURE: Pathogenesis related protein; Table 16 row 4
PUBLICATION INFORMATION:
AUTHORS:
AUTHORS: Cutl, J. R.
AUTHORS: Dixon, D. C.
AUTHORS: Carr, J. P.
AUTHORS: Klessig, D. F.
TITLE: Isolation and nucleotide sequence of cDNA clones for the
TITLE: pathogenesis related proteins of Nicotiana tabacum induced by TMV
TITLE: infection.
JOURNAL: Nucleic Acids Research
VOLUME: 16
PAGES: 9861
DATE: 1988
US-07-857-224B-100

Query Match 27.3% Score 296; DB 2; Length 138;
Best Local Similarity 44.3%; Pred. No. 2,3e-23;
Matches 62; Conservative 15; Mismatches 51; Indels 12; Gaps 3;

QY 69 EYLAPHNOARAGVAPLEKKNAGLASAAAGTVAQGRGGGCAADVCA----SYGANQG 124
DB 6 DYLDARTARDVGVEPLWDOVAAYQNYASQ-----LADCNELVHSRGYENLA 58
QY 125 NASYR-ARPAEVALKVAEGRYTFYFANNTCAGACGCGTYGVVWNRVAEVCQAQASCATG 183
DB 59 WCGSGDFL-AAKAVFMWNEKGVYARDSNTCAQGGVCGHYTVGVWNRVSRVGCARVCCNNG 118
QY 184 ATLILCLNPHGNVQSGSPY 203
DB 219 GYVSCNDYPPGNVICKSPY 138

RESUI 5
US-08-181-271A-45
Sequence 45, Application US/08181271A
Patent No. 5614395
GENERAL INFORMATION:
APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.

APPLICANT: Sperison, Christoph
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Uknes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shetlica C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANT-PATHOGENIC
TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/181,271A
FILING DATE: 13-JAN-94
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/155,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,572
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/PL/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
```



```

: INFORMATION FOR SEQ ID NO: 45:
: SEQUENCE CHARACTERISTICS:
:   LENGTH: 168 amino acids
:   TYPE: amino acid
:   TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-181-271A-45

Query Match      26.4%; Score 286; DB 1; Length 168;
Best Local Similarity 36.7%; Pred. No. 3,4e-22;
Matches 69; Conservative 22; Mismatches 59; Indels 38; Gaps 7;

QY 22 LLATLLALCAAPATHGARVIMPGAGAVTKAGCGTGGSSNATADBYLAPHNQARAAY 81
Db 13 LLVSTLLFLVI---SHSCR-----AQN50Q-----CYLDAHNTARADV 48

QY 82 GVAPLRNNGLASAAAGTVAAQRROGGCAFADVGA----SPYGAN--OGWASYRARPAY 135
Db 49 GVEPLTWDDQVAAYAQNYASQ-----LAADCNLVHSHGQYGENLAEGSGDFMI-AAKA 100

QY 136 VALVVAEGRYTHANTCAAGRCQGYTVQVWRNTAEVGCQAQASCATGATLTICLYNPHG 195
Db 101 VEMVYDEKQYDHDSDNTCAQGVCGHYTVQVWRNSVRVGCARVQCQNGGYVVSCHNDPPG 160

QY 196 NVQGSFPY 203
Db 161 NYRGESPY 168

RESULT 6
US-08-449-315-45
: Sequence 45, Application US/08449315
: Patent No. 5650505
: GENERAL INFORMATION:
:   APPLICANT: Ryals, John A.
:   APPLICANT: Alexander, Danny C.
:   APPLICANT: Beck, James J.
:   APPLICANT: Duesing, John H.
:   APPLICANT: Friedrich, Leslie B.
:   APPLICANT: Goodman, Robert M.
:   APPLICANT: Harms, Christian
:   APPLICANT: Meins, Jr., Frederick
:   APPLICANT: Montoya, Alice
:   APPLICANT: Moyer, Mary B.
:   APPLICANT: Neuhaus, Jean-Marc
:   APPLICANT: Payne, George B.
:   APPLICANT: Sperison, Christoph
:   APPLICANT: Stinson, Jeffrey R.
:   APPLICANT: Uknes, Scott J.
:   APPLICANT: Ward, Eric R.
:   APPLICANT: Williams, Shericca C.
: TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
: TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
: NUMBER OF SEQUENCES: 106
: CORRESPONDENCE ADDRESS:
:   ADDRESS: CIBA-GEIGY Corporation
:   STREET: 7 Skyline Drive
:   CITY: Hawthorne
:   STATE: New York
:   COUNTRY: USA
:   ZIP: 10532
: COMPUTER READABLE FORM:
:   MEDIUM TYPE: Floppy disk
:   COMPUTER: IBM PC compatible
:   OPERATING SYSTEM: PC-DOS/MS-DOS
:   SOFTWARE: Patent Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
:   APPLICATION NUMBER: US/08/449,315
:   FILING DATE: 24-MAY-1995
:   CLASSIFICATION: 800
:   PRIOR APPLICATION DATA:
:     APPLICATION NUMBER: 08/181,271
:     FILING DATE: 13-JAN-94
: APPLICATION NUMBER: US 08/093,301
: FILING DATE: 16-JUL-1993
: PRIOR APPLICATION DATA:
:   APPLICATION NUMBER: US 07/937,197
:   FILING DATE: 6-NOV-1992
: PRIOR APPLICATION DATA:
:   APPLICATION NUMBER: US 07/678,378
:   FILING DATE: 1-APR-1991
: PRIOR APPLICATION DATA:
:   APPLICATION NUMBER: US 07/405,566
:   FILING DATE: 6-FEB-1989
: PRIOR APPLICATION DATA:
:   APPLICATION NUMBER: US 07/165,667
:   FILING DATE: 8-MAR-1988
: PRIOR APPLICATION DATA:
:   APPLICATION NUMBER: US 08/042,847
:   FILING DATE: 6-APR-1993
: PRIOR APPLICATION DATA:
:   APPLICATION NUMBER: US 07/632,441
:   FILING DATE: 21-DEC-1990
: PRIOR APPLICATION DATA:
:   APPLICATION NUMBER: US 07/425,504
:   FILING DATE: 20-OCT-1989
: PRIOR APPLICATION DATA:
:   APPLICATION NUMBER: US 07/580,431
:   FILING DATE: 7-SEP-1990
: PRIOR APPLICATION DATA:
:   APPLICATION NUMBER: US 07/368,672
:   FILING DATE: 20-JUN-1989
: PRIOR APPLICATION DATA:
:   APPLICATION NUMBER: US 07/329,018
:   FILING DATE: 24-MAR-1989
: PRIOR APPLICATION DATA:
:   APPLICATION NUMBER: US 08/045,957
:   FILING DATE: 12-APR-1993
: ATTORNEY/AGENT INFORMATION:
:   NAME: Elmer, James Scott
:   REGISTRATION NUMBER: 36,129
:   REFERENCE/DOCKET NUMBER: S-19825/PJ/CGC 1727
: TELECOMMUNICATION INFORMATION:
:   TELEPHONE: (919)541-8614
:   TELEFAX: (919)541-8689
:   INFORMATION FOR SEQ ID NO: 45:
:     SEQUENCE CHARACTERISTICS:
:       LENGTH: 168 amino acids
:       TYPE: amino acid
:       TOPOLOGY: linear
:     MOLECULE TYPE: protein
US-08-449-315-45

Query Match      26.4%; Score 286; DB 1; Length 168;
Best Local Similarity 36.7%; Pred. No. 3,4e-22;
Matches 69; Conservative 22; Mismatches 59; Indels 38; Gaps 7;

QY 22 LLATLLALCAAPATHGARVIMPGAGAVTKAGCGTGGSSNATADBYLAPHNQARAAY 81
Db 13 LLVSTLLFLVI---SHSCR-----AQN50Q-----CYLDAHNTARADV 48

QY 82 GVAPLRNNGLASAAAGTVAAQRROGGCAFADVGA----SPYGAN--OGWASYRARPAY 135
Db 49 GVEPLTWDDQVAAYAQNYASQ-----LAADCNLVHSHGQYGENLAEGSGDFMI-AAKA 100

QY 136 VALVVAEGRYTHANTCAAGRCQGYTVQVWRNTAEVGCQAQASCATGATLTICLYNPHG 195
Db 101 VEMVYDEKQYDHDSDNTCAQGVCGHYTVQVWRNSVRVGCARVQCQNGGYVVSCHNDPPG 160

QY 196 NVQGSFPY 203
Db 161 NYRGESPY 168
```

Db 161 NYRGESPY 168

RESULT 7

US-08-444-903-45

Sequence 45, Application US/08444803

Patent No. 5654414

GENERAL INFORMATION:

APPLICANT: Ryals, John A.

APPLICANT: Alexander, Danny C.

APPLICANT: Beck, James J.

APPLICANT: Dressing, John H.

APPLICANT: Friedrich, Leslie B.

APPLICANT: Goodman, Robert M.

APPLICANT: Harms, Christian

APPLICANT: Meins, Jr., Frederick

APPLICANT: Montoya, Alice

APPLICANT: Moyer, Mary B.

APPLICANT: Neuhaus, Jean-Marc

APPLICANT: Payne, George B.

APPLICANT: Sperison, Christoph

APPLICANT: Stinson, Jeffrey R.

APPLICANT: Uknes, Scott J.

APPLICANT: Ward, Eric R.

APPLICANT: Williams, Sherica C.

TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC

NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: New York

COUNTRY: USA

ZIP: 10512

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/444,803

FILING DATE: 19-MAY-1995

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 05/181,271

FILING DATE: 13-JAN-94

APPLICATION NUMBER: US 08/093,301

FILING DATE: 16-JUL-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/937,137

FILING DATE: 6-NOV-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/678,378

FILING DATE: 1-APR-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/105,566

FILING DATE: 6-FEB-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/165,567

FILING DATE: 8-MAR-1988

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/042,847

FILING DATE: 6-APR-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/532,441

FILING DATE: 21-DEC-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/425,504

FILING DATE: 20-OCT-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/848,506

FILING DATE: 6-MAR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/768,122

FILING DATE: 27-SEP-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/580,431

FILING DATE: 7-SEP-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/368,672

FILING DATE: 20-JUN-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/329,618

FILING DATE: 24-MAR-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 06/045,957

FILING DATE: 12-APR-1993

ATTORNEY/AGENT INFORMATION:

NAME: Elmet, James Scott

REGISTRATION NUMBER: 36,124

REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727

TELECOMMUNICATION INFORMATION:

TELEPHONE: (919)541-8614

TELEFAX: (919)541-8489

INFORMATION FOR SEQ ID NO: 45:

SEQUENCE CHARACTERISTICS:

LENGTH: 168 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-444-803-45

Query Match 26.4%; Score 286; DB 1; length 168;

Best Local Similarity 36.7%; Pred. No. 3,40-22;

Matches 69; Conservative 22; Mismatches 59; Indels 38; Gaps 7;

QY 22 LLATLLALCAAPATHGAVLMPGGAGAVTKAOGGSGSCSNATACEYLAPHNOARAV 81

DB 13 LLVSTLLLEVI---SHSCR-----ACNSQ-----DYDAENTRADY 48

QY 62 GVAPLRWNLASRAAGTVAQRRKGSCAFADVGA----SPYGAN--QGWASYRPAEV 135

DB 45 GVEPLTWDEQVAAYAVASG-----LAADCNLVESHQYGHNLAFSGDEMT-AAKA 100

QY 136 VALVVAEGRYVTHANNITCAAGKQNGTYTVVWVNLAEVGGCAQASNCALITLCLNPHG 195

DB 101 VEMVYDEKQYVHDSNTCAQKGVCHITVWVWRSVRVGLARVCINNGTIVVSCNTDPPG 160

QY 196 NVQGQSPY 203

DB 161 NYRGESPY 168

RESULT 8

US-08-449-043-45

Sequence 45, Application US/08449043

Patent No. 5689044

GENERAL INFORMATION:

APPLICANT: Ryals, John A.

APPLICANT: Alexander, Danny C.

APPLICANT: Beck, James J.

APPLICANT: Dressing, John H.

APPLICANT: Friedrich, Leslie B.

APPLICANT: Goodman, Robert M.

APPLICANT: Harms, Christian

APPLICANT: Meins, Jr., Frederick

APPLICANT: Montoya, Alice

APPLICANT: Moyer, Mary B.

APPLICANT: Neuhaus, Jean-Marc

APPLICANT: Payne, George B.

APPLICANT: Sperison, Christoph

APPLICANT: Stinson, Jeffrey R.

APPLICANT: Uknes, Scott J.

APPLICANT: Ward, Eric R.


```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,847
; FILING DATE: 6-APR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/532,441
; FILING DATE: 21-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/425,504
; FILING DATE: 20-OCT-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/848,506
; FILING DATE: 6-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/768,122
; FILING DATE: 27-SEP-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/580,431
; FILING DATE: 7-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/368,672
; FILING DATE: 20-JUN-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/329,018
; FILING DATE: 24-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/045,957
; FILING DATE: 12-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Meigs, J. Timothy
; REGISTRATION NUMBER: 38,241
; REFERENCE/DOCKET NUMBER: S-19825/PL/CSC 1727/CIV10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919)541-8587
; TELEFAX: (919)541-8689
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 168 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-456-265A-45

Query Match 26.4%; Score 286; DB 1; Length 168;
Best Local Similarity 36.7%; Pred No. 3.4e-22;
Matches 69; Conservative 22; Mismatches 59; Indels 38; Gaps 7;

QY 22 LLATLLALCAAPATHGAVRVLMPGGAGAVTKAQGGTGGSGSNATADPY:APHNQAAAY 82
Db 15 LLVSTLLFLVLT---SHSCR-----AQNQQ-----DYLTAHNTAAADV 48
QY 82 GVAPLSKNAGLASAAAGTVAGQRQGGCAFADVGA---SPYGAN--CGWASYRARPAY 135
Db 49 GVPEPTWDDVAAVYAGNYASQ-----LAAICNLVSHNGYGENLAGSGHPT-AAKA 100
QY 136 VALWVARGRYTHANTTCAGRGCGTYTGVVWNTAEVGCACACATGATLTC:YNPHG 195
Db 101 VEMWVDEKQYDHDSTCAQGGCGGHYTOVWNRVSRVGCARVQCNNGYVVSQNYDPFG 160
QY 196 NVQGSQSPY 203
Db 161 NYRGESPY 168

RESULT 10
US-08-455-416-45
; Sequence 45, Application US/08455416
; Patent No. 577200
; GENERAL INFORMATION:
; APPLICANT: Ryals, John A.
; APPLICANT: Alexander, Danny C.
; APPLICANT: Beck, James J.
; APPLICANT: Duesing, John H.
; APPLICANT: Friedrich, Leslie B.
; APPLICANT: Goodman, Robert M.
; APPLICANT: Harms, Christian
; APPLICANT: Meins, Jr., Frederick
; APPLICANT: Montoya, Alice
; APPLICANT: Myer, Mary B.
; APPLICANT: Neuhaus, Jean-Marc
; APPLICANT: Payne, George B.
; APPLICANT: Sperison, Christoph
; APPLICANT: Stinson, Jeffrey R.
; APPLICANT: Uknes, Scott J.
; APPLICANT: Ward, Eric R.
; APPLICANT: Williams, Shericca C.
; TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
; TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: New York
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/455,416
; FILING DATE: 31-MAY-1995
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/181,271
; FILING DATE: 13-JAN-94
; APPLICATION NUMBER: US 08/093,301
; FILING DATE: 16-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/937,197
; FILING DATE: 6-NOV-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/578,378
; FILING DATE: 1-APR-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/305,566
; FILING DATE: 6-FEB-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/165,667
; FILING DATE: 8-MAR-1988
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,847
; FILING DATE: 6-APR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/632,441
; FILING DATE: 21-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/425,504
; FILING DATE: 20-OCT-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/848,506
; FILING DATE: 6-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/768,122
; FILING DATE: 27-SEP-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/580,431
; FILING DATE: 7-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/368,672
; FILING DATE: 20-JUN-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/329,018
; FILING DATE: 24-MAR-1989
; PRIOR APPLICATION DATA:

```

APPLICATION NUMBER: US 06/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO. 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 168 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-455-416-45

Query Match 26.4% Score 256; DR 1; Length 168;

Best Local Similarity 35.7%; Pred. No. 3.4e-22;
Matches 69; Conservative 22; Mismatches 59; Indels 38; Gaps 7;

QY 22 LLATLALCAAPAPTHGAVIMPGGAGAVTKAQQGTGSGSNATADEYLAPHKQAAAV 81
D5 13 LVSTLLFLVI---SHSCR-----AQNQQ-----DYLDARNIAADV 48
QY 82 GYAPLRNAGLASAAGTVAQORROGCAFPADVA-----SPYGN--QGASVRAAPAV 135
D5 49 GVEPLTDDQVAAVYAGNTASQ-----IAADCNLVSHSGYGENAEGSGUET-AAKA 100
QY 136 VALVAAEGRYTHANTCAAGROGTQYQVYVVRNTAEVGGCAQASCATCA-TITELYNPHS 195
D5 101 VEMVDEKQYVHDNSTCAGQVQGHYQVYVVRNSVRVGCARVOCNNGYVVSNDPPG 160
QY 196 NVQGSQPY 203
D5 161 NYRGESPY 168

RESULT 11

US-08-455-244-45
Sequence 45, Application US/08455244
Patent No. 5789214

GENERAL INFORMATION:

APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marie
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christopher
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Ukens, Scott J.
APPLICANT: Ward, Eric P.
APPLICANT: Williams, Sheriara C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PA-HOGENIC
TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESS: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
City: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/455,244
FILING DATE: 31-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/281,273
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,302
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/405,566
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO. 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 168 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-455-244-45

Query Match 26.4% Score 286; DR 1; Length 168;

Best Local Similarity 36.7%; Pred. No. 3.4e-22;

Matches 69; Conservative 22; Mismatches 59; Indels 38; Gaps 7;

QY 22 LLATLALCAAPAPTHGAVIMPGGAGAVTKAQQGTGSGSNATADEYLAPHKQAAAV 81
D5 13 LVSTLLFLVI---SHSCR-----AQNQQ-----DYLDARNIAADV 48

```
QY 82 GVAPLRWNAAGLASAAGTVAQRKGGCAFAADVGA-----SPYGAN--QGNASYEARAEV 135
Db 49 GVEPLTWDDQVAAYANVASQ-----AADCNLDVHSRSGYGNLAEGSGDFT-AAKA 100
QY 136 VALWVAEGRYTHANTCAAGRQGGTYTQVVRNRTARVGGCAQASCATGATLTCLXNPHG 195
Db 101 VEMWVDEKQYDHDSNICAQGVCGHYTQVVRNRSVRVGCARVCNNGGVVWSCNTPPG 160
QY 195 NVQOGSPY 203
Db 161 NYRGESPY 169

RESULT 12
US-08-454-876-45
: Sequence 45, Application US/08454876
: Patent No. 5804693
: GENERAL INFORMATION:
: APPLICANT: Ryals, John A.
: APPLICANT: Alexander, Danny C.
: APPLICANT: Beck, James J.
: APPLICANT: Duesing, John H.
: APPLICANT: Friedrich, Leslie B.
: APPLICANT: Goodman, Robert M.
: APPLICANT: Harms, Christian
: APPLICANT: Meins, J.F., Frederick
: APPLICANT: Montoya, Alice
: APPLICANT: Moyer, Mary B.
: APPLICANT: Nehaus, Jean-Marie
: APPLICANT: Payne, George B.
: APPLICANT: Sperison, Christoph
: APPLICANT: Slinson, Jeffrey R.
: APPLICANT: Uknes, Scott G.
: APPLICANT: Williams, Sherrilee C.
: TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
: NUMBER OF SEQUENCES: 106
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: CIBA-GRIGY Corporation
: STREET: 7 Skyline Drive
: CITY: Hawthorne
: STATE: New York
: COUNTRY: USA
: ZIP: 10522
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/03/454,876
: FILING DATE: 31-MAY-1995
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/481,271
: FILING DATE: 13-JAN-94
: APPLICATION NUMBER: US 08/093,301
: FILING DATE: 16-JUL-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/937,197
: FILING DATE: 6-NOV-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/678,378
: FILING DATE: 1-APR-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/305,566
: FILING DATE: 6-FEB-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/165,667
: FILING DATE: 8-MAR-1988
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/042,847
```

```
QY 22 LLATLLACAPATHTICARVLMPCGAGCAVTKALOGTSSSNATADETLAPANGRAAV 81
Db 13 LIVS-LLI FLV-----ACNSQO-----BYLDHINTARDV 48
QY 82 GVAPLRWNAAGLASAAGTVAQRKGGCAFAADVGA-----SPYGAN--QGNASYEARAEV 135
Db 49 GVEPLTWDDQVAAYANVASQ-----AADCNLDVHSRSGYGNLAEGSGDFT-AAKA 100
QY 136 VALWVAEGRYTHANTCAAGRQGGTYTQVVRNRTARVGGCAQASCATGATLTCLXNPHG 195
Db 101 VEMWVDEKQYDHDSNICAQGVCGHYTQVVRNRSVRVGCARVCNNGGVVWSCNTPPG 160
QY 195 NVQOGSPY 203
Db 161 NYRGESPY 169

Query Match 26.4%; Score 286; DB 1; Length 168;
Best Local Similarity 36.7%; Pred. No. 3.4e+22;
Matches 69; Conservative 22; Mismatches 59; Indels 48; Gaps 7;

US-08-454-876-45
: Query Match 26.4%; Score 286; DB 1; Length 168;
: Best Local Similarity 36.7%; Pred. No. 3.4e+22;
: Matches 69; Conservative 22; Mismatches 59; Indels 48; Gaps 7;
:
: 22 LLATLLACAPATHTICARVLMPCGAGCAVTKALOGTSSSNATADETLAPANGRAAV 81
: 13 LIVS-LLI FLV-----ACNSQO-----BYLDHINTARDV 48
: 82 GVAPLRWNAAGLASAAGTVAQRKGGCAFAADVGA-----SPYGAN--QGNASYEARAEV 135
: 49 GVEPLTWDDQVAAYANVASQ-----AADCNLDVHSRSGYGNLAEGSGDFT-AAKA 100
: 136 VALWVAEGRYTHANTCAAGRQGGTYTQVVRNRTARVGGCAQASCATGATLTCLXNPHG 195
: 101 VEMWVDEKQYDHDSNICAQGVCGHYTQVVRNRSVRVGCARVCNNGGVVWSCNTPPG 160
: 195 NVQOGSPY 203
: 161 NYRGESPY 169
:
: RESULT 13
: US-08-457-364-45
: Sequence 45, Application US/08457364
: Patent No. 5847258
: GENERAL INFORMATION:
: APPLICANT: Ryals, John A.
: APPLICANT: Alexander, Danny C.
: APPLICANT: Beck, James J.
: APPLICANT: Duesing, John H.
: APPLICANT: Friedrich, Leslie B.
: APPLICANT: Goodman, Robert M.
: APPLICANT: Harms, Christian
```

1	APPLICANT: Meins, Jr., Frederick	1	PRIOR APPLICATION NUMBER: US 07/165,667	1	FILING DATE: 3-MAR-1988
2	APPLICANT: Montoya, Alice	2	APPLICATION NUMBER: US 07/165,667	2	FILING DATE: 3-MAR-1988
3	APPLICANT: Moverly, Mary B.	3	PRIOR APPLICATION DATA:	3	PRIOR APPLICATION DATA:
4	APPLICANT: Neutaus, Jean-Kate	4	APPLICATION NUMBER: US 07/676,378	4	APPLICATION NUMBER: US 08/042,847
5	APPLICANT: Payne, George R.	5	FILING DATE: 1-APR-1991	5	FILING DATE: 6-APR-1993
6	APPLICANT: Sperison, Christopher	6	PRIOR APPLICATION DATA:	6	PRIOR APPLICATION DATA:
7	APPLICANT: Stinson, Jeffrey R.	7	APPLICATION NUMBER: US 07/305,566	7	APPLICATION NUMBER: US 07/632,441
8	APPLICANT: Uknes, Scott J.	8	FILING DATE: 6-FEB-1999	8	FILING DATE: 21-DEC-1990
9	APPLICANT: Ward, Eric R.	9	PRIOR APPLICATION DATA:	9	PRIOR APPLICATION DATA:
10	APPLICANT: Williams, Sheriela C.	10	APPLICATION NUMBER: US 07/937,197	10	APPLICATION NUMBER: US 07/425,504
11	TITLE OF INVENTION: CHEMICALLY RESISTANT	11	FILING DATE: 6-NOV-1992	11	FILING DATE: 20-OCT-1989
12	TITLE OF INVENTION: DNA SEQUENCES AND	12	PRIOR APPLICATION DATA:	12	PRIOR APPLICATION DATA:
13	NUMBER OF SEQUENCES: 106	13	APPLICATION NUMBER: US 07/676,378	13	APPLICATION NUMBER: US 07/848,506
14	CORRESPONDENCE ADDRESSES:	14	FILING DATE: 1-APR-1991	14	FILING DATE: 6-MAR-1992
15	ADDRESSSES: CIBA-GEIGY Corporation	15	PRIOR APPLICATION DATA:	15	PRIOR APPLICATION DATA:
16	STREET: 7 Skyline Drive	16	APPLICATION NUMBER: US 07/305,566	16	APPLICATION NUMBER: US 07/768,122
17	CITY: Hawthorne	17	FILING DATE: 6-FEB-1999	17	FILING DATE: 27-SEP-1991
18	STATE: New York	18	PRIOR APPLICATION DATA:	18	PRIOR APPLICATION DATA:
19	COUNTRY: USA	19	APPLICATION NUMBER: US 07/937,197	19	APPLICATION NUMBER: US 07/580,431
20	ZIP: 10532	20	FILING DATE: 6-NOV-1992	20	FILING DATE: 7-SEP-1990
21	COMPUTER READABLE FORM:	21	PRIOR APPLICATION DATA:	21	PRIOR APPLICATION DATA:
22	MEDIUM TYPE: Floppy disk	22	APPLICATION NUMBER: US 07/676,378	22	APPLICATION NUMBER: US 07/368,672
23	COMPUTER: IBM PC compatible	23	FILING DATE: 1-APR-1991	23	FILING DATE: 20-JUN-1989
24	OPERATING SYSTEM: PC-DOS/MS-DOS	24	PRIOR APPLICATION DATA:	24	PRIOR APPLICATION DATA:
25	SOFTWARE: Patent Release 1.0.1	25	APPLICATION NUMBER: US 07/305,566	25	APPLICATION NUMBER: US 07/329,016
26	CURRENT APPLICATION DATA:	26	FILING DATE: 6-FEB-1999	26	FILING DATE: 24-MAR-1989
27	APPLICATION NUMBER: US/98/457,364	27	PRIOR APPLICATION DATA:	27	PRIOR APPLICATION DATA:
28	FILING DATE: 3-MAY-1995	28	APPLICATION NUMBER: US 07/937,197	28	APPLICATION NUMBER: US 02/045,957
29	CLASSIFICATION: 860	29	FILING DATE: 6-NOV-1992	29	FILING DATE: 12-APR-1993
30	PRIOR APPLICATION DATA:	30	PRIOR APPLICATION DATA:		
31	APPLICATION NUMBER: 98/457,364				
32	FILING DATE: 13-JAN-94				
33	APPLICATION NUMBER: US 02/093,301				
34	FILING DATE: 16-JUL-1993				
35	PRIOR APPLICATION DATA:				
36	APPLICATION NUMBER: US 07/937,197				
37	FILING DATE: 6-NOV-1992				
38	PRIOR APPLICATION DATA:				
39	APPLICATION NUMBER: US 07/676,378				
40	FILING DATE: 1-APR-1991				
41	PRIOR APPLICATION DATA:				
42	APPLICATION NUMBER: US 07/305,566				
43	FILING DATE: 6-FEB-1999				
44	PRIOR APPLICATION DATA:				
45	APPLICATION NUMBER: US 07/165,667				
46	FILING DATE: 3-MAR-1988				
47	PRIOR APPLICATION DATA:				
48	APPLICATION NUMBER: US 08/042,847				
49	FILING DATE: 6-APR-1993				
50	PRIOR APPLICATION DATA:				
51	APPLICATION NUMBER: US 07/632,441				
52	FILING DATE: 21-DEC-1990				
53	PRIOR APPLICATION DATA:				
54	APPLICATION NUMBER: US 07/425,504				
55	FILING DATE: 20-OCT-1989				
56	PRIOR APPLICATION DATA:				
57	APPLICATION NUMBER: US 07/848,506				
58	FILING DATE: 6-MAR-1992				
59	PRIOR APPLICATION DATA:				
60	APPLICATION NUMBER: US 07/768,122				
61	FILING DATE: 27-SEP-1991				
62	PRIOR APPLICATION DATA:				
63	APPLICATION NUMBER: US 07/580,431				
64	FILING DATE: 7-SEP-1990				
65	PRIOR APPLICATION DATA:				
66	APPLICATION NUMBER: US 07/368,672				
67	FILING DATE: 20-JUN-1989				
68	PRIOR APPLICATION DATA:				
69	APPLICATION NUMBER: US 07/329,016				
70	FILING DATE: 24-MAR-1989				
71	PRIOR APPLICATION DATA:				
72	APPLICATION NUMBER: US 02/045,957				
73	FILING DATE: 12-APR-1993				

ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8669
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 168 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLTYPE: protein
S-C8-457-164-45

Query Match	26.48;	Score 286;	DB 2;	Length 168;
Best Local Similarity	36.7%;	Pred. NO. 3.4e-22;		
Matches	69;	Conservative	59;	Indels
			36;	Gaps
QY	22	LLATLIALCAAPPTICARVIMPGGAGAVTKACQGTGSGSNATADEYALAHUNQARAAV	81	
DE	13	LIVSTLFLFVI-----SSSCR-----ACNSQ-----DYLAARNTARADV	48	
QY	82	GVAPLRNAGLASAAATVTAQCRHQCSCAPADNGA-----SPYCAN--CGMAYSRAPPAPV	135	
DE	43	GVEPLTMDQVAAAYAGNANSG-----LAADCLNLVSHGQGENAESGDFMT-AAKA	100	
QY	136	VALVWAEGRYTHANNTCAAGRCQGYTVVVRNTAEVGCACASCATGALLTLCLYNPHG	195	
DE	161	VHMYDEKQYDHRDNTCAQSGVGHYTVVWNSVRVGCARYOCNNGYTVVYSCNDYDPHG	160	
QY	196	NVQOGSPY	203	
DE	161	NYRGESPY	168	

```

1  RESULT 14
2  US-38-456-262-45
3  : Sequence 45, Application US/08456262
4  : Patent No. 5851766
5  : GENERAL INFORMATION:
6  : APPLICANT: Ryals, John A.
7  : APPLICANT: Alexander, Danny C.
8  : APPLICANT: Beck, James J.
9  : APPLICANT: Duesing, John H.
10 : APPLICANT: Friedrich, Leslie B.
11 : APPLICANT: Goodman, Robert M.
12 : APPLICANT: Harms, Christian
13 : APPLICANT: Meins, Jr., Frederick
14 : APPLICANT: Montoya, Alice
15 : APPLICANT: Moyer, Mary B.
16 : APPLICANT: Neuhaus, Jean-Marc
17 : APPLICANT: Payne, George B.
18 : APPLICANT: Sperison, Christoph
19 : APPLICANT: Stinson, Jeffrey R.
20 : APPLICANT: Uknes, Scott J.
21 : APPLICANT: Ward, Eric R.
22 : APPLICANT: Williams, Shericca C.
23 : TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PAATHOGENIC
24 : TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
25 : NUMBER OF SEQUENCES: 106
26 : CORRESPONDENCE ADDRESS:
27 : ADDRESSEE: CIBA-GEIGY Corporation
28 : STREET: 7 Skyline Drive
29 : CITY: Hawthorne
30 : STATE: New York
31 : COUNTRY: USA
32 : ZIP: 10532
33 : COMPUTER READABLE FORM:
34 : MEDIUM TYPE: Floppy disk
35 : COMPUTER: IBM PC compatible
36 : OPERATING SYSTEM: PC-DOS/MS-DOS
37 : SOFTWARE: PatentIn Release #1.0, Version #1.25

```


APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Eimer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 168 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-456-240-45

Query Match 26.4% Score 286; Db 2; Length 168;
Best Local Similarity 36.7% Pred. No. 3.4e-22;
Matches 69; Conservative 22; Mismatches 59; Indels 38; Gaps 7;
QY 22 LLATLLALCAAPATPHCARVLMPPGGAGVTKAGCGGSGSNNTADEYLAPENQAPAAV 81
DB 13 LIVSTLLFLV1---SHSCR-----AGNSQQ-----DYLDHNTARAIN 48
QY 82 GVAPLRWNGLASAAAGTVAQORRGSCAPADVCA---SPYGAN--QGWASYRAREAEV 135
DB 49 GVEPLTKDDQVAAYACNVASQ-----LAADCNLVSHGQYGENLAESGDPNT-AAKA 100
QY 136 VALWVAEGRYTHANN:CAAGRCGCGTYTVVWRNIAEYGCAGACATGATLTICLYNPHS 195
DB 101 VEMWYDEKCYDHDSDNTCAQCQVAGHTTVVWRNNSVRVGCARVQCKNGGYVVSCTDIFG 160
QY 196 KYOGOSPY 203
DB 16: NYRGESPY 168

Search completed: October 17, 2003, 14:12:57
Job time : 28 secs